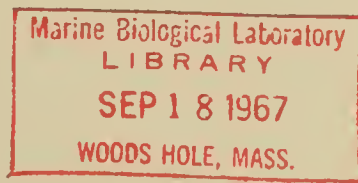


The Trade Wind Zone Oceanography Pilot Study Part II: Townsend Cromwell Cruises 4, 5, and 6 May to July 1964

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



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UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES

UNITED STATES DEPARTMENT OF THE INTERIOR

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The Trade Wind Zone Oceanography Pilot Study

Part II: Townsend Cromwell Cruises 4, 5, and 6

May to July 1964

By

Robert L. Charnell, David W. K. Au
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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the second set of three cruises, Townsend Cromwell cruises 4, 5, and 6, May to July 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the second of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity....) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the fourth, fifth, and sixth cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefting and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 4:
May 14 to June 5, 1964

David W. K. Au - HL - Field Party Chief
Howard Adrian - HL
Claude E. Allen - HL
Melvin E. Kau - HL
James H. Uchiyama - HL
David Bratley - Smithsonian Institution
Warren King - Smithsonian Institution

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Townsend Cromwell, cruise 5:

June 15 to July 5, 1964

Robert P. Brown - HL - Field Party Chief
Howard Adrian - HL
Melvin E. Kau - HL
Michael R. Marcotte - HL
Stephen M. Skolnick - HL
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 6:

July 13 to August 1, 1964

David W. K. Au - HL - Field Party Chief
Howard Adrian - HL
Claude E. Allen - HL
Arthur M. Bauckham, Jr. - HL
Paul M. Shiota - HL
Dayle N. Husted - Smithsonian Institution
Warren King - Smithsonian Institution
H. W. Tinkelenberg - Massachusetts Institute
of Technology

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 19 and 21, 26 and 28, and 35 and 37.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m.net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley^{2/} pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. Current-measuring techniques were tested with an Ekman current meter on cruise 4 and a Roberts meter on cruise 5, both suspended from the ship. The ship was drifting relative to a parachute drogue placed at a depth of 1,200 m. On cruise 6, H. W. Tinkelenberg conducted sound-ranging tests using subsurface floats which imploded in the sound channel after a period of time. Results of these tests can be obtained from H. Stommel, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^{\circ}\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu 96812.

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2°C . The bucket salinity values, on the other hand, were consistently larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about $0.03\text{ }^{\circ}/\text{oo}$ and the root mean square value was within $0.07\text{ }^{\circ}/\text{oo}$ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 4, 5, and 6, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate,^{3/} respectively; the next two columns contain calculated sigma-t and specific volume anomaly

for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148°W. , 151°W. , 154°W. , and 157°W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 4, figures 8 through 13 for cruise 5, and figures 14 through 19 for cruise 6.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 4, 5, and 6, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 4, 5, and 6, respectively.

The dynamic topography, relative to 1,200 m. for cruises 4, 5, and 6, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

^{3/}Oxygen and phosphate data are available only for cruise 6. The columns in the tables for cruises 4 and 5 bear the oxygen and phosphate headings only to have a uniform format for this series of reports.

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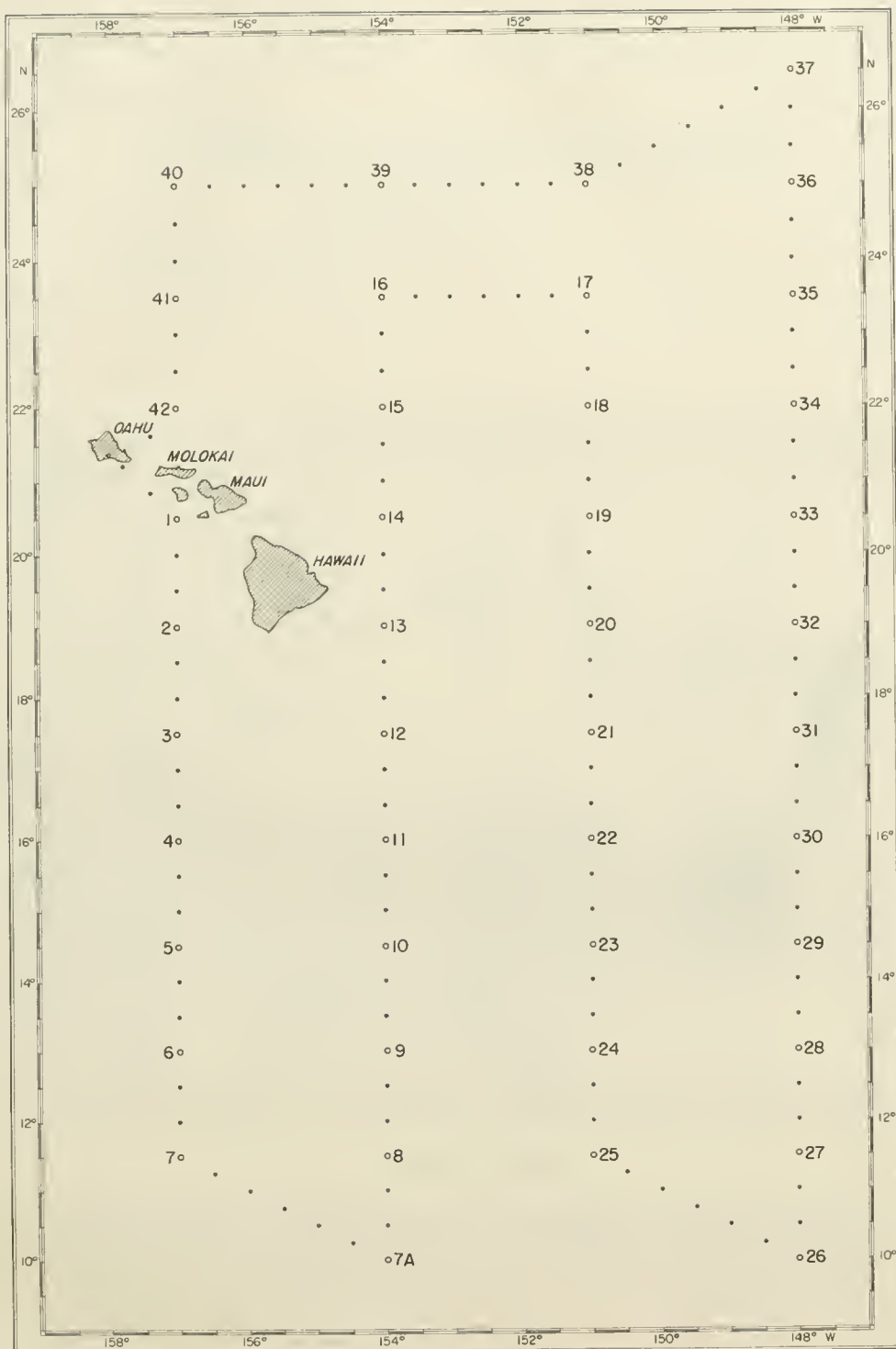


Figure 1.--Track chart for Townsend Cromwell cruises 4, 5, and 6. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

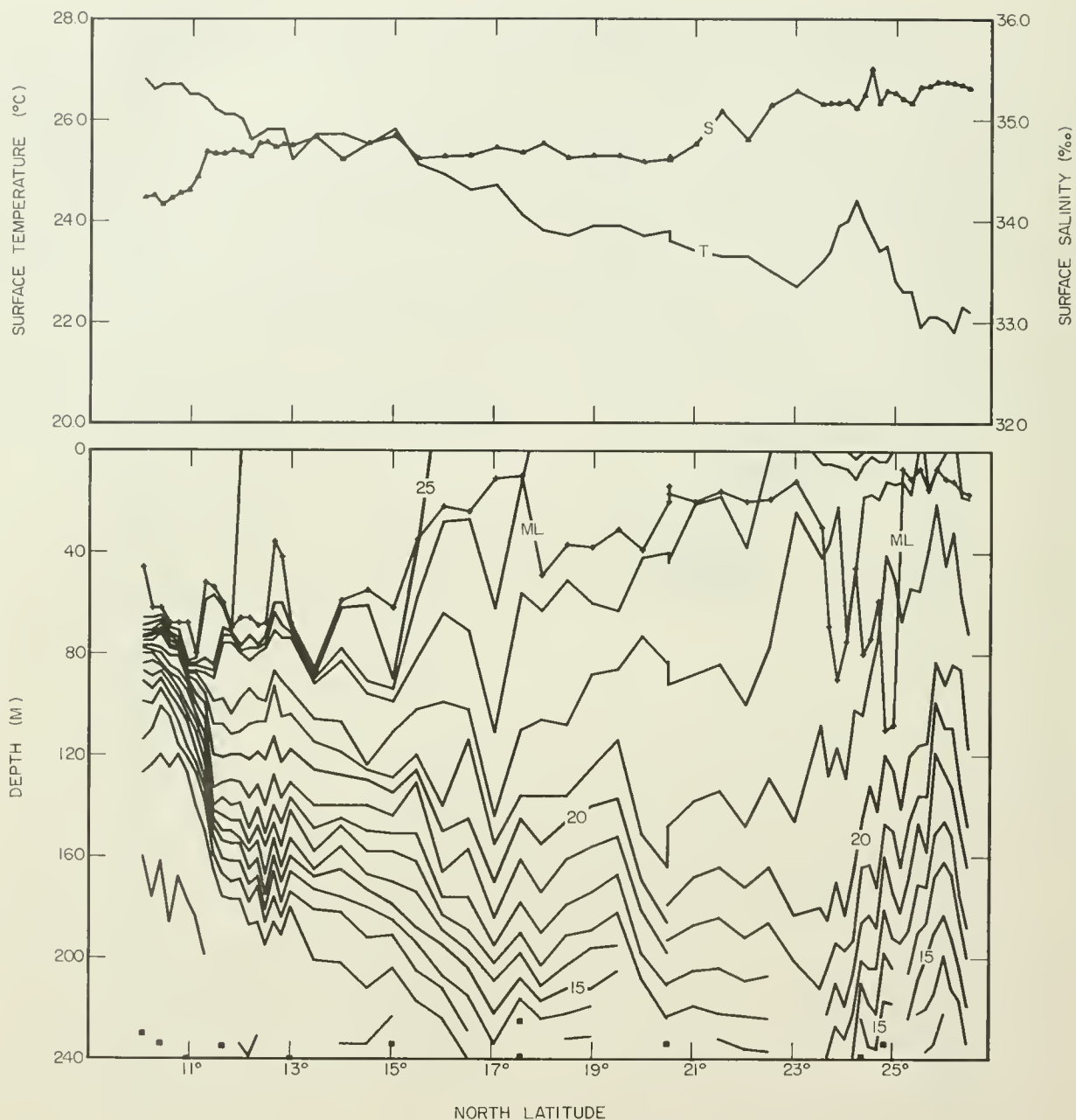


Figure 2.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 4 along long. 148°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

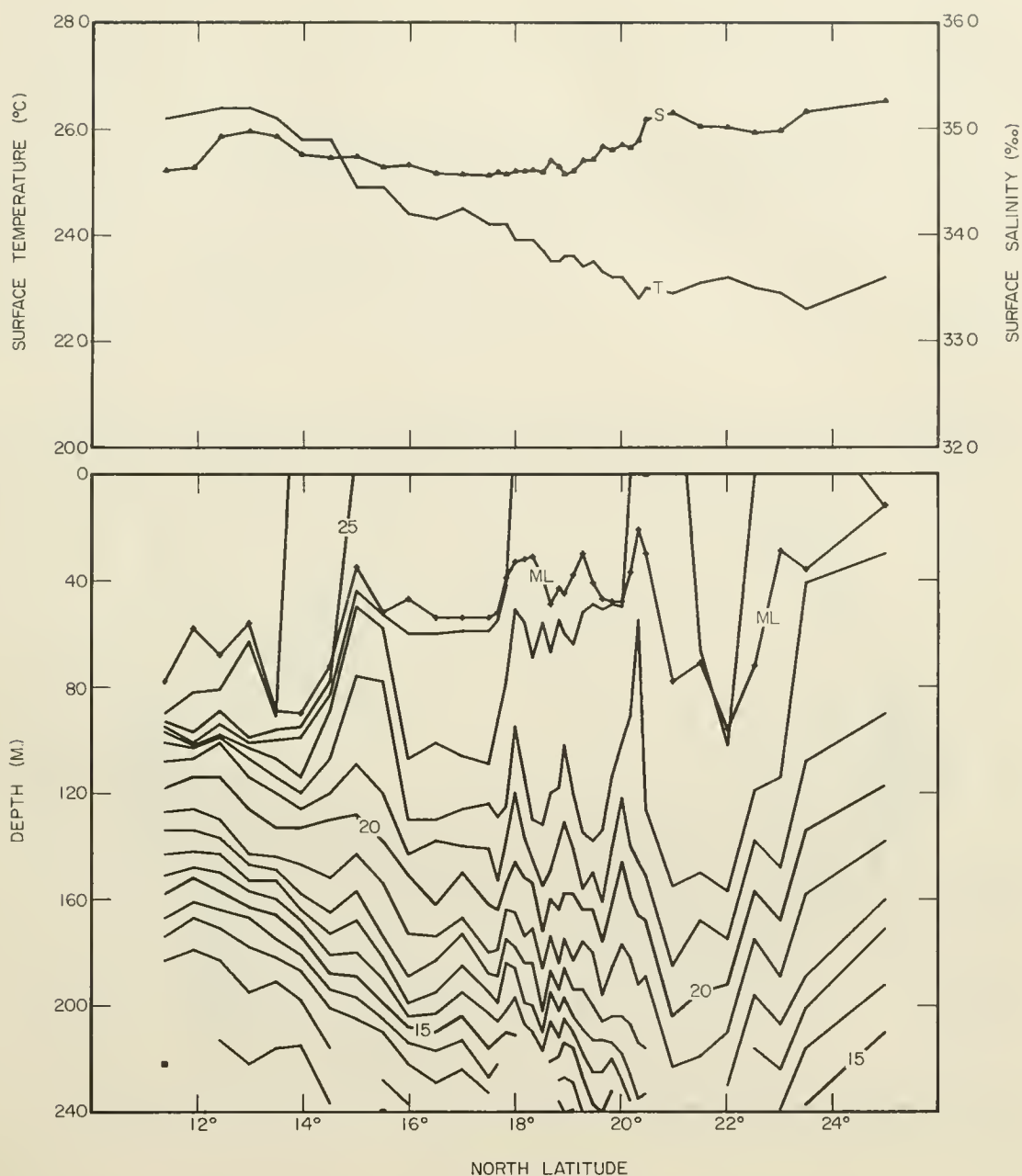


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

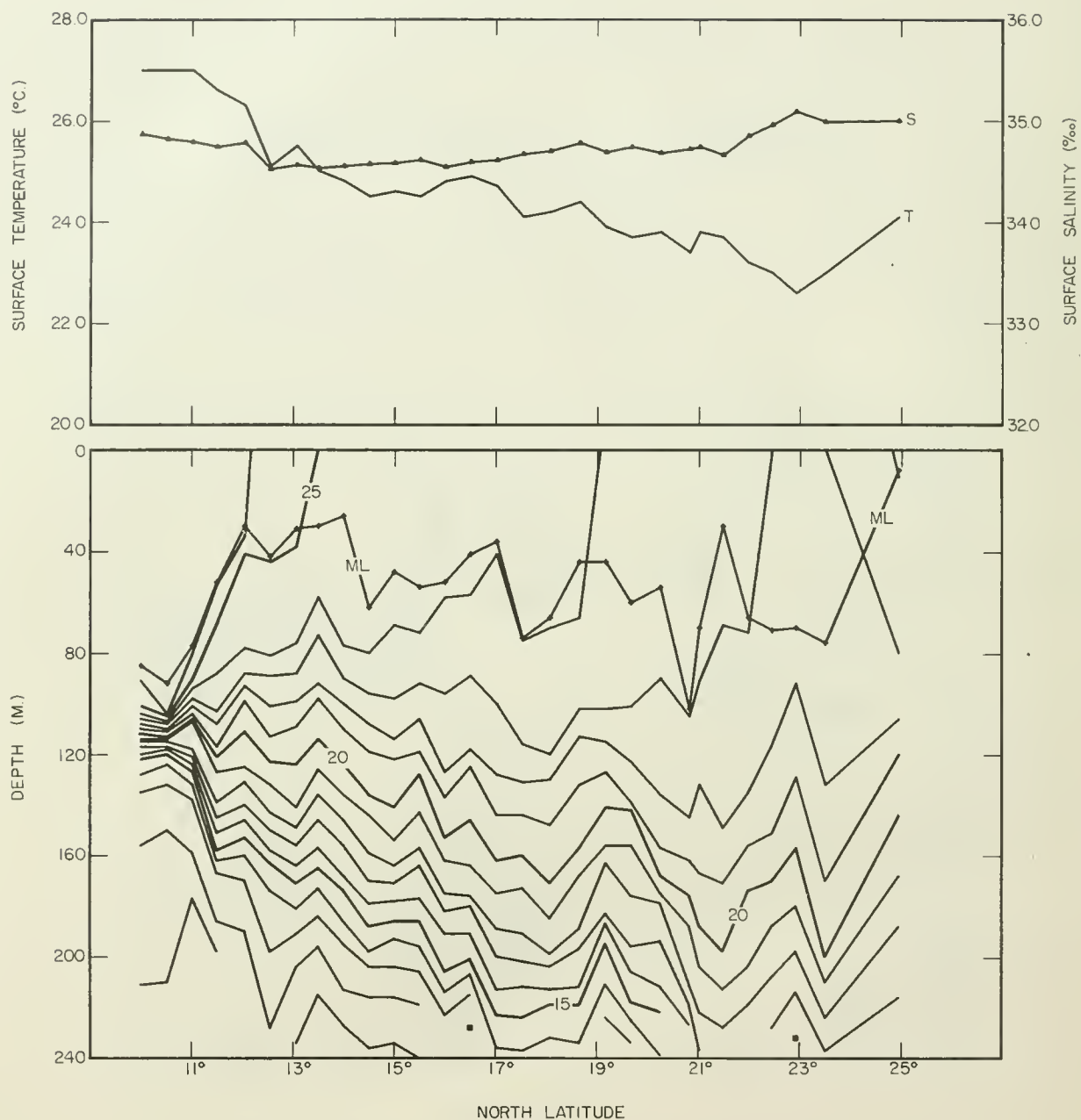


Figure 4.--Surface temperatures ($^{\circ}\text{C}.$) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 4 along long. $154^{\circ}\text{W}.$ The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.



Figure 5.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

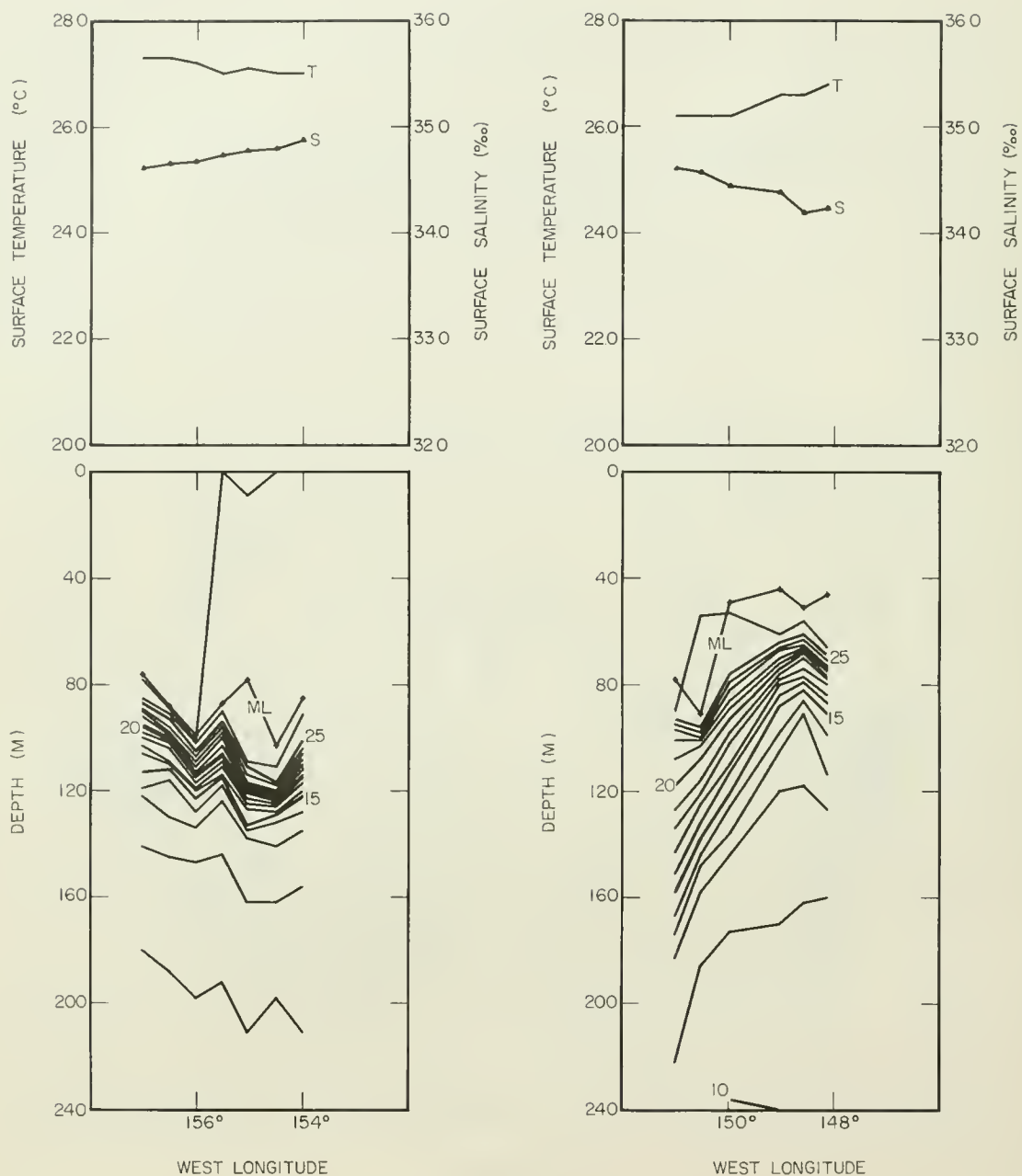


Figure 6.--Surface temperatures ($^{\circ}\text{C}$.) and salinities ($^{\circ}/\text{oo}$) (upper panel) and zonal BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 4 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

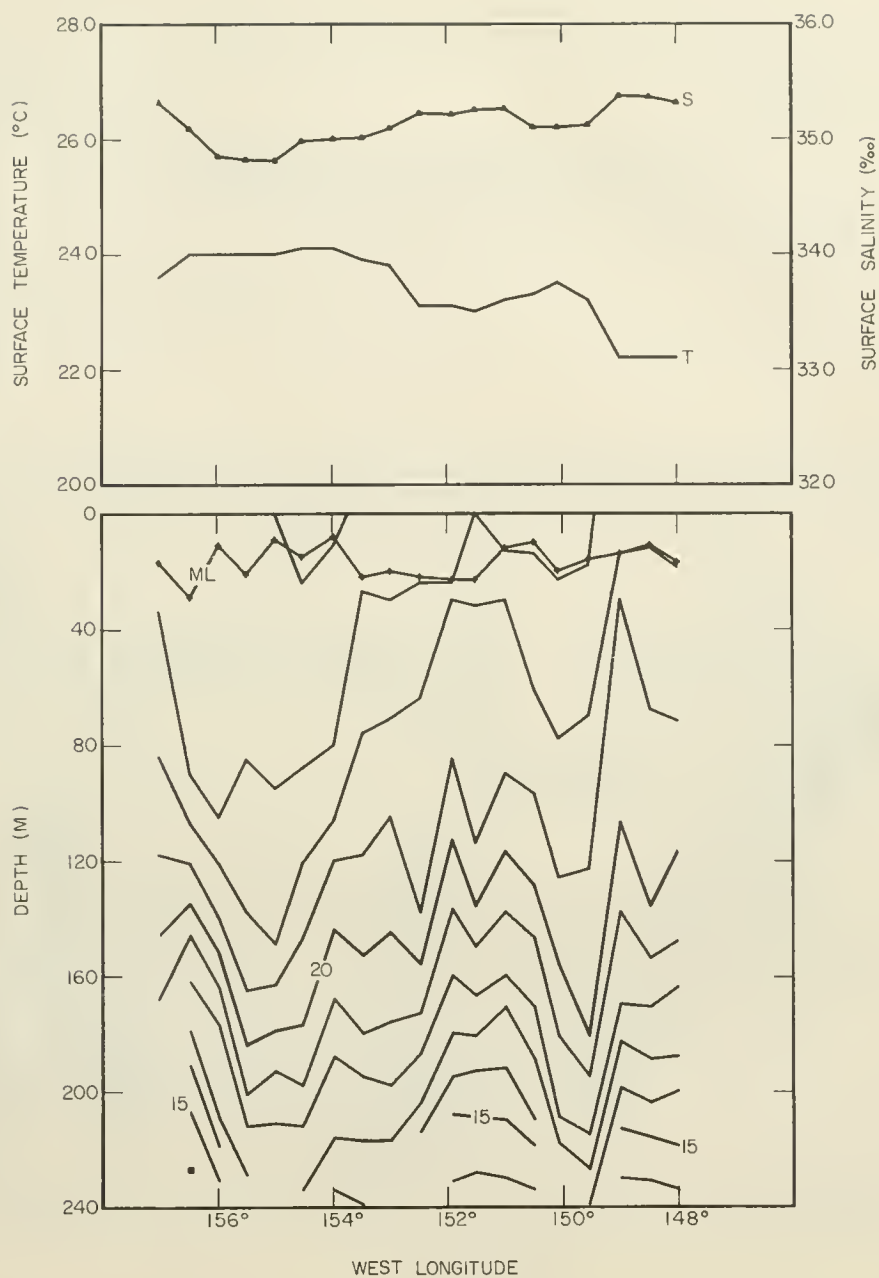


Figure 7.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 4 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

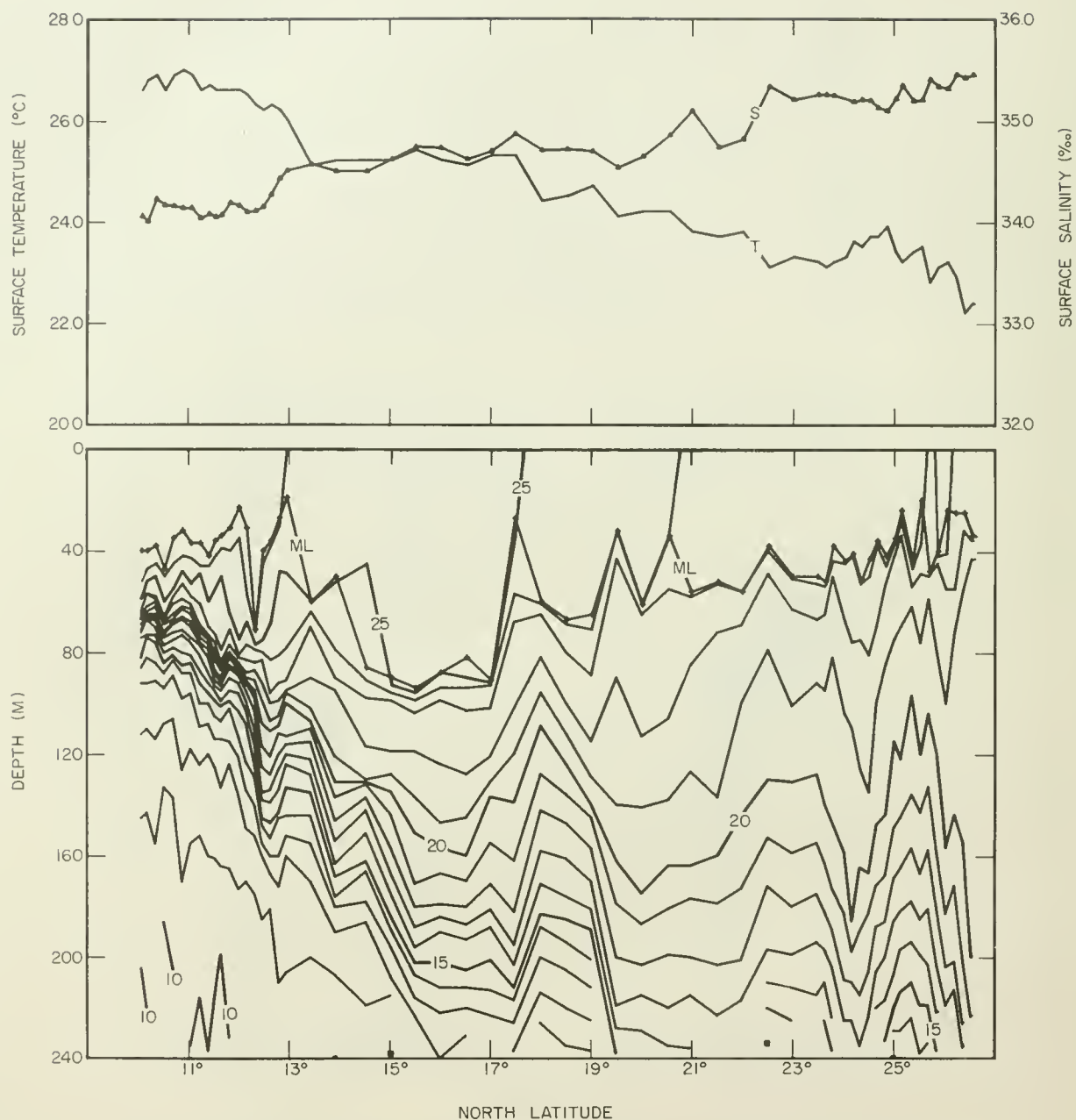


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

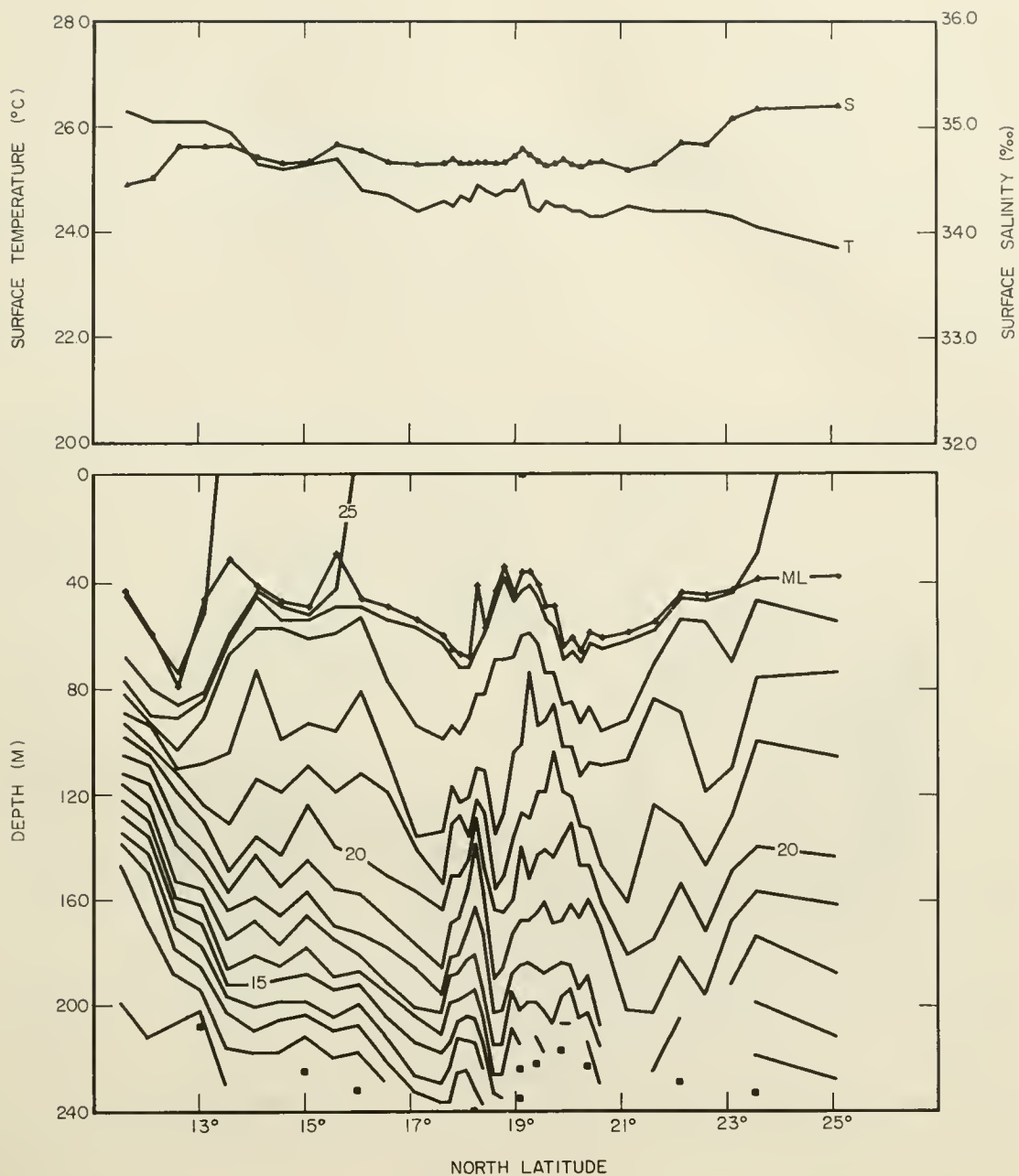


Figure 9.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

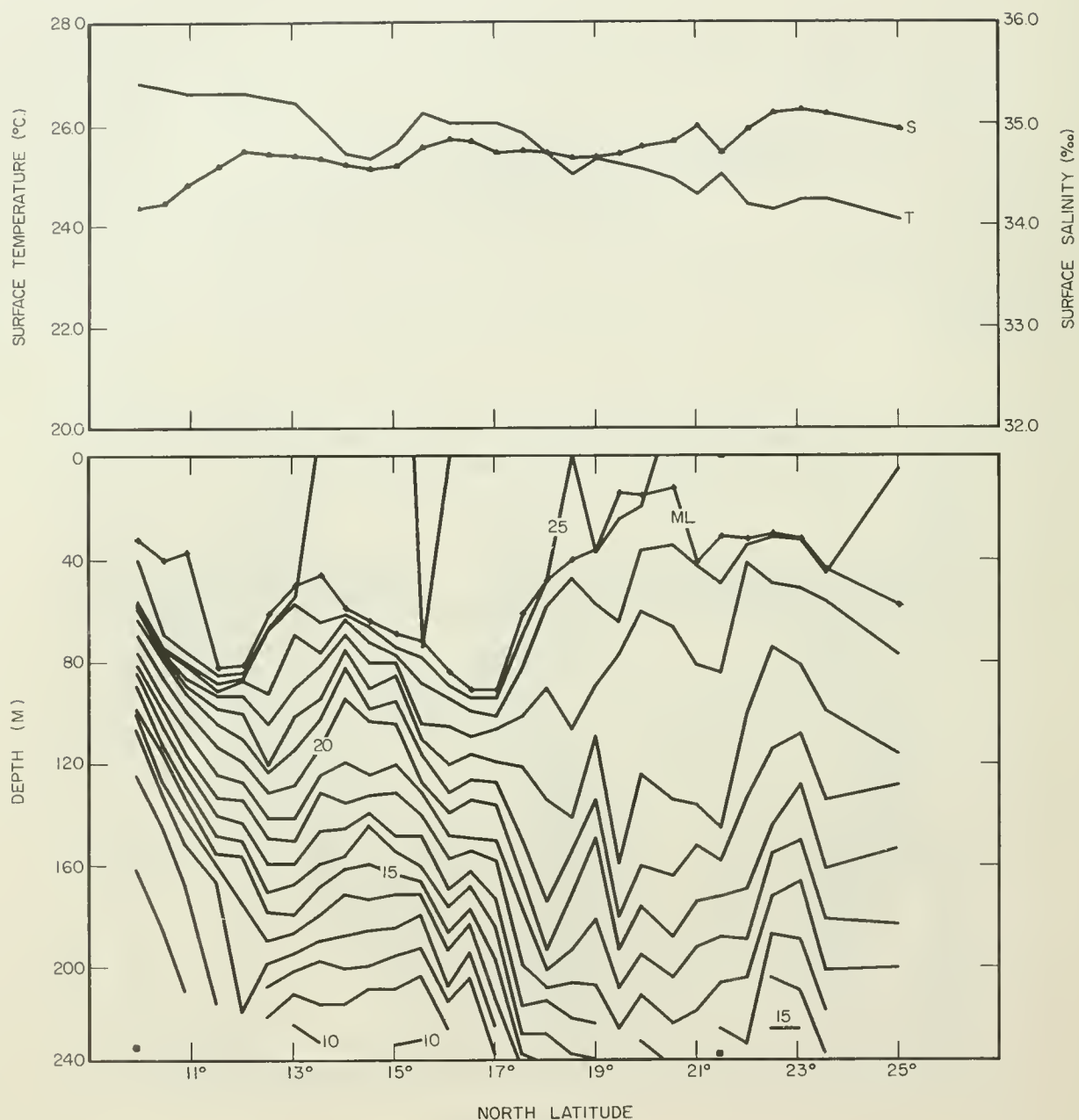


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

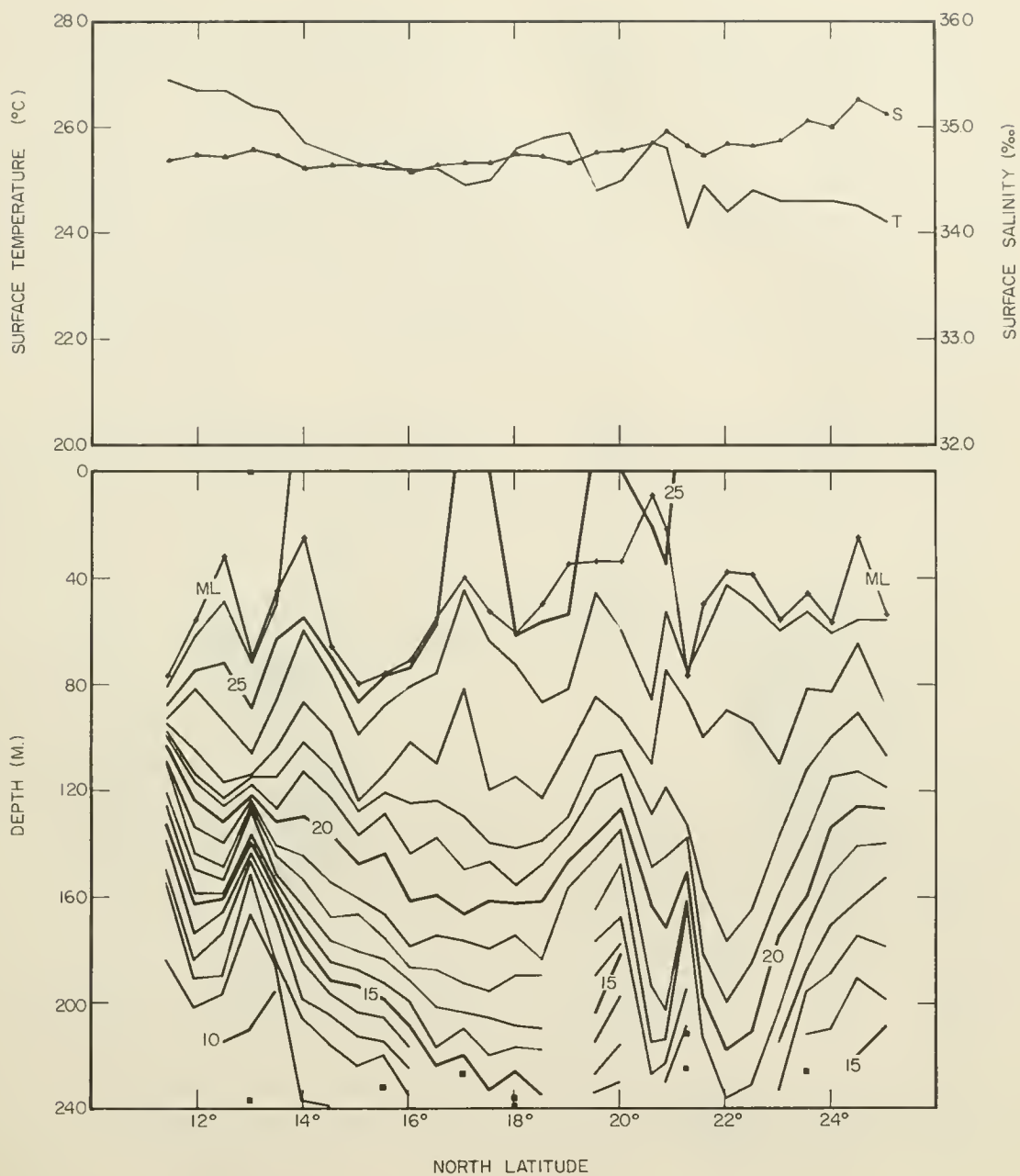


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

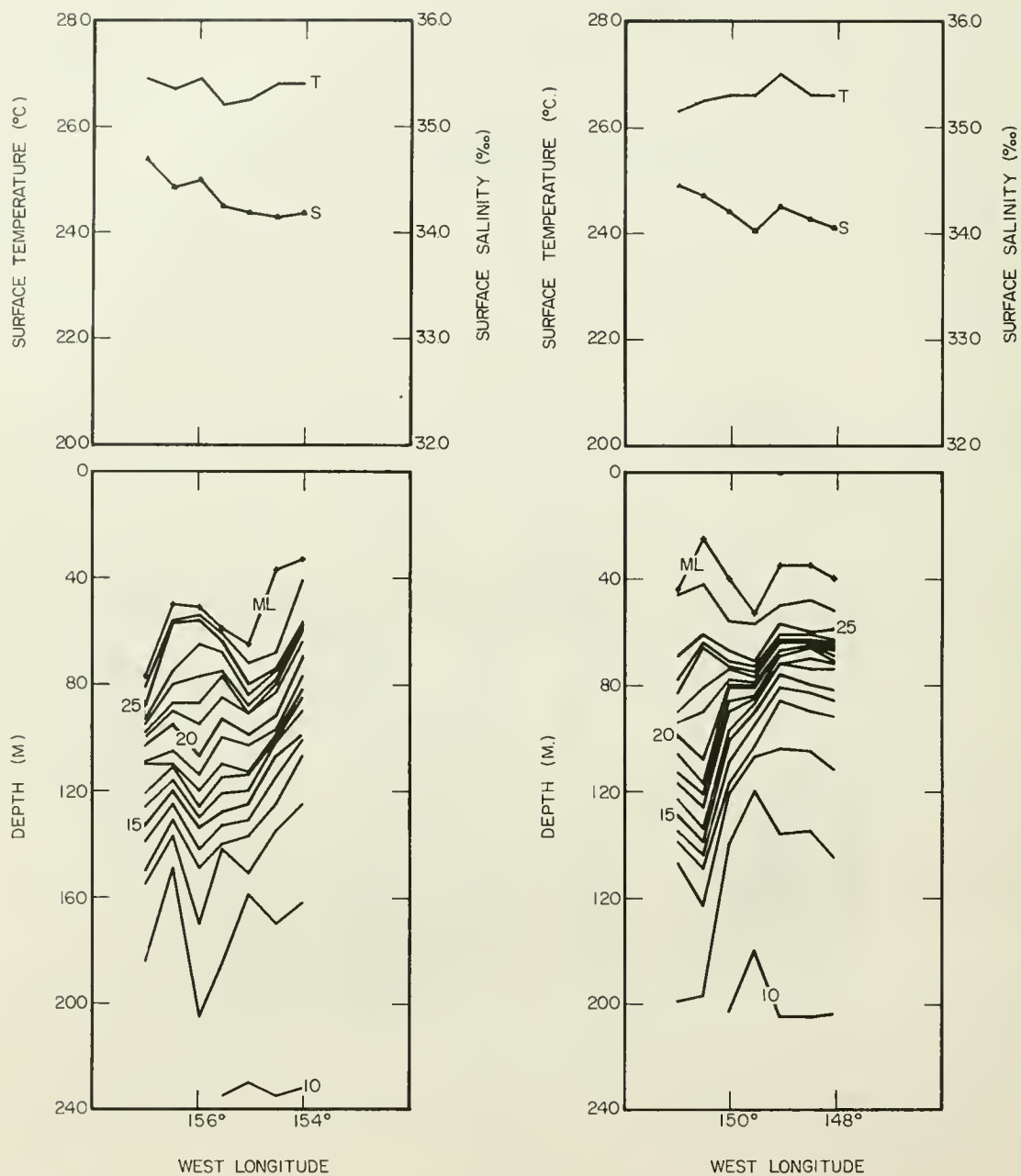


Figure 12.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 5 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

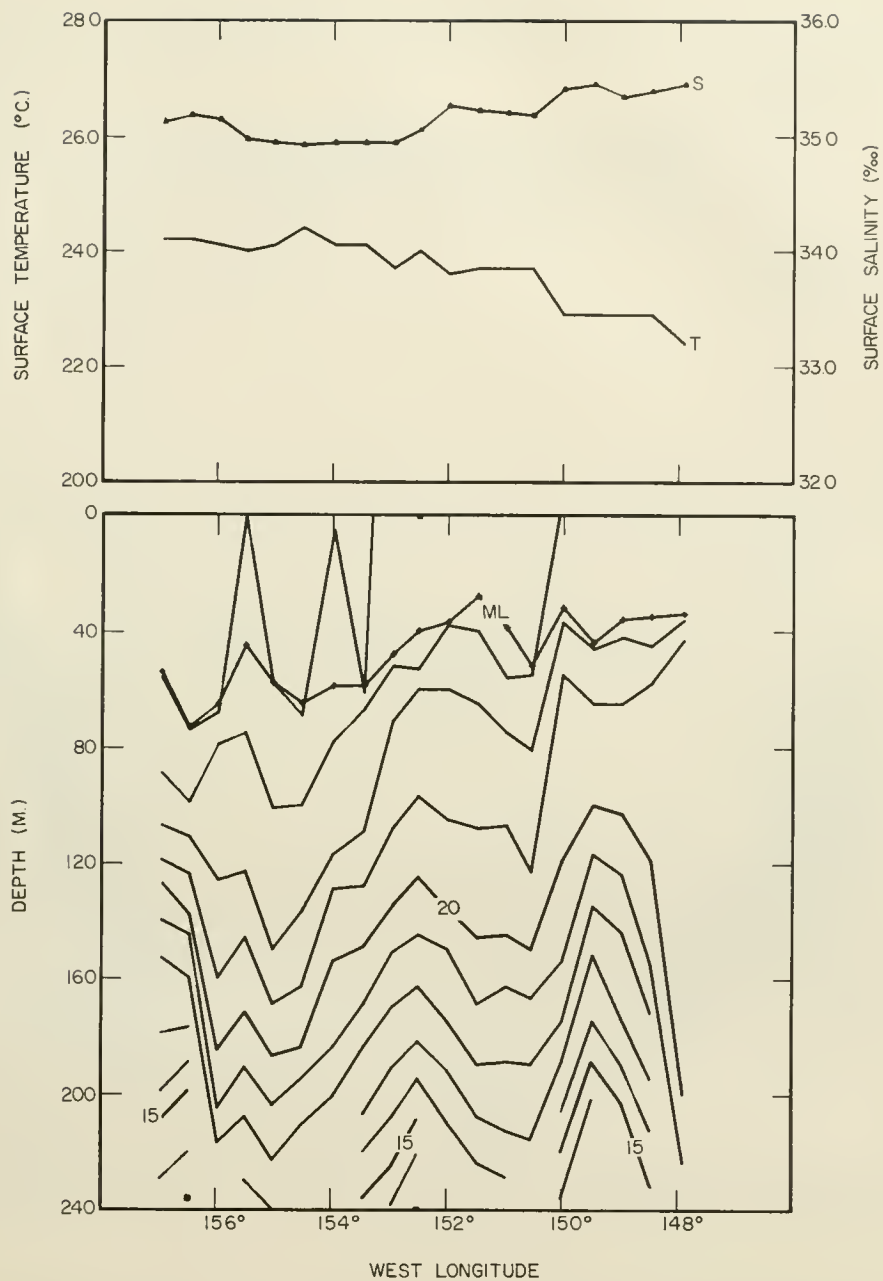


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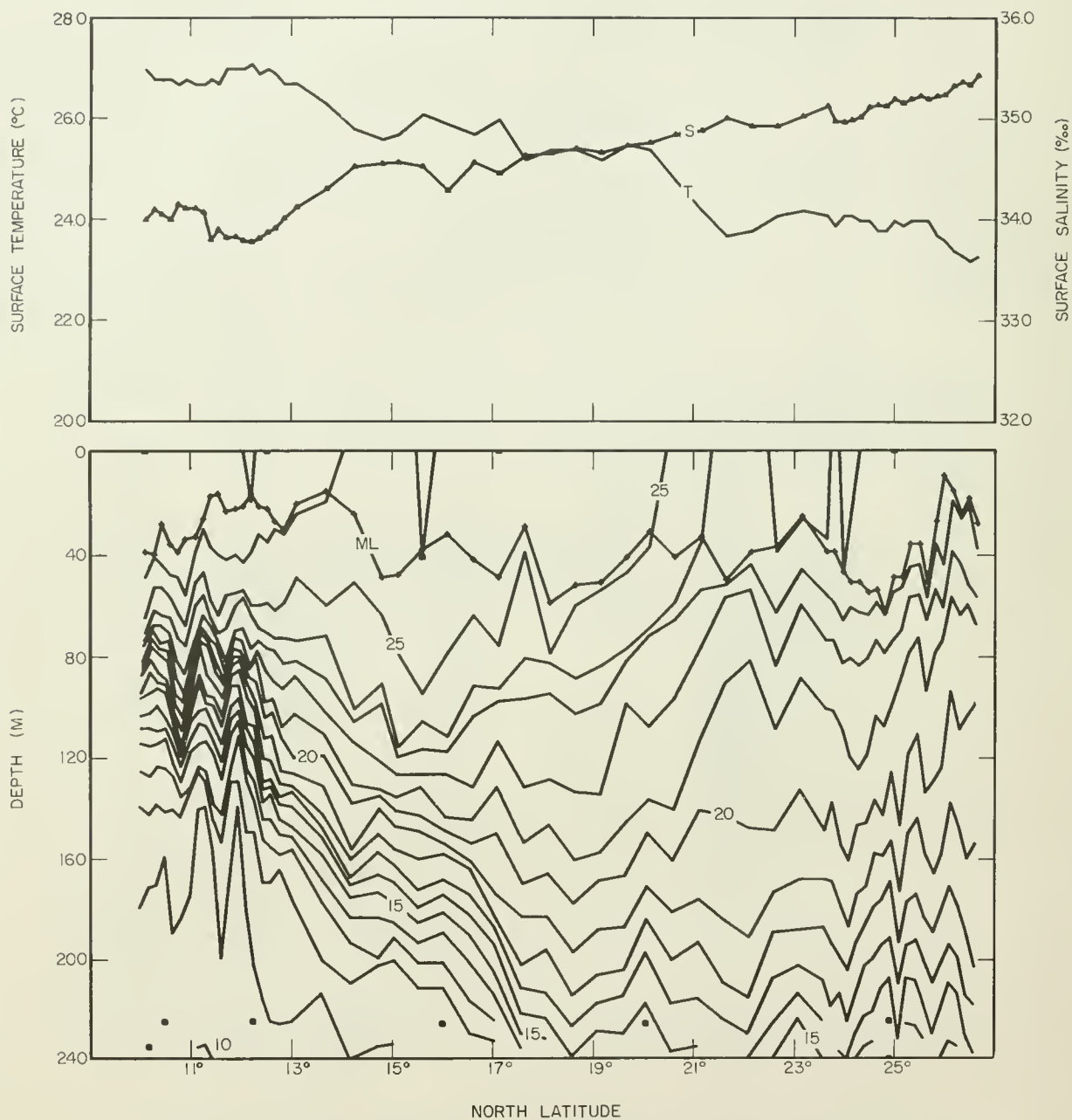


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

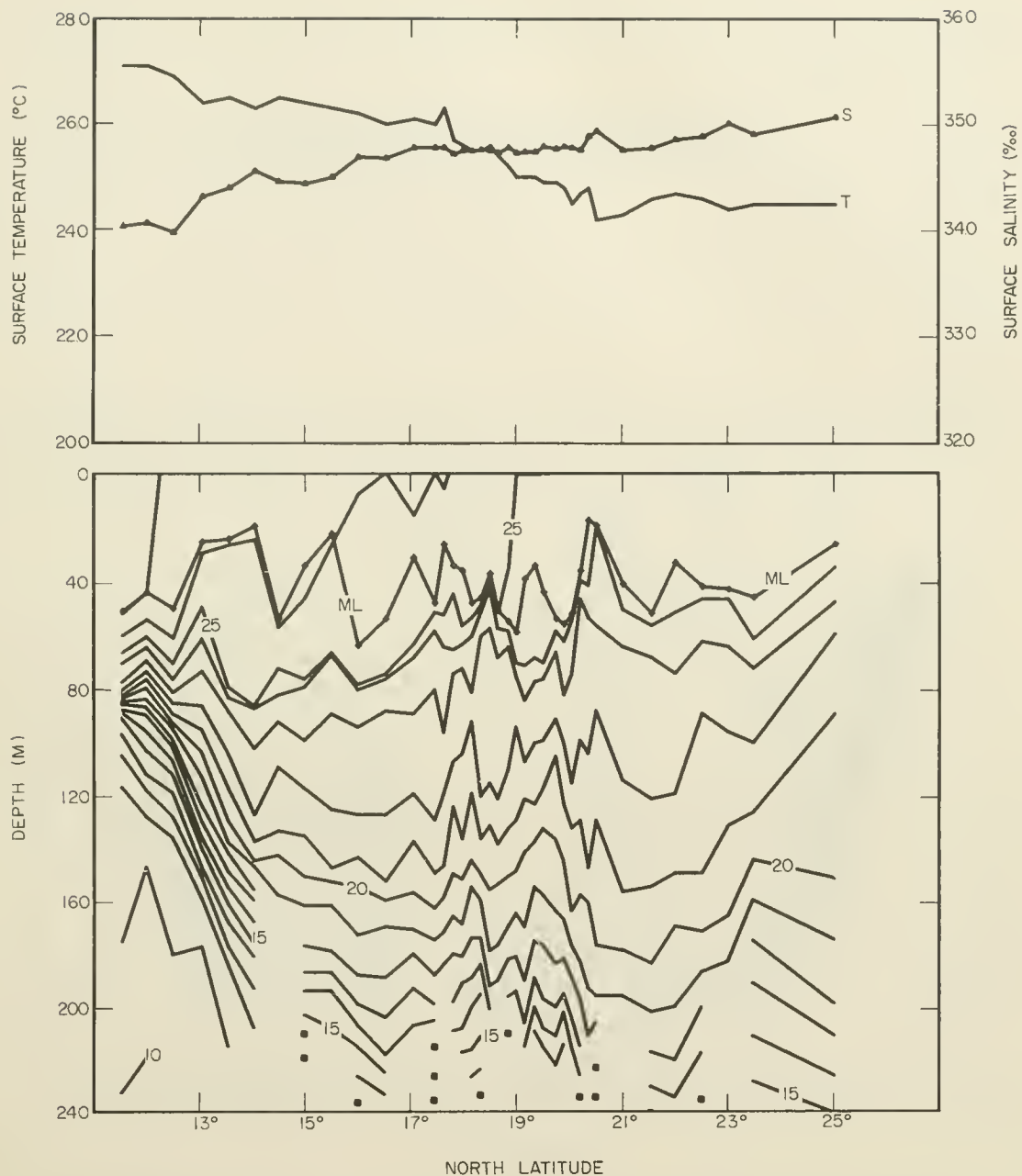


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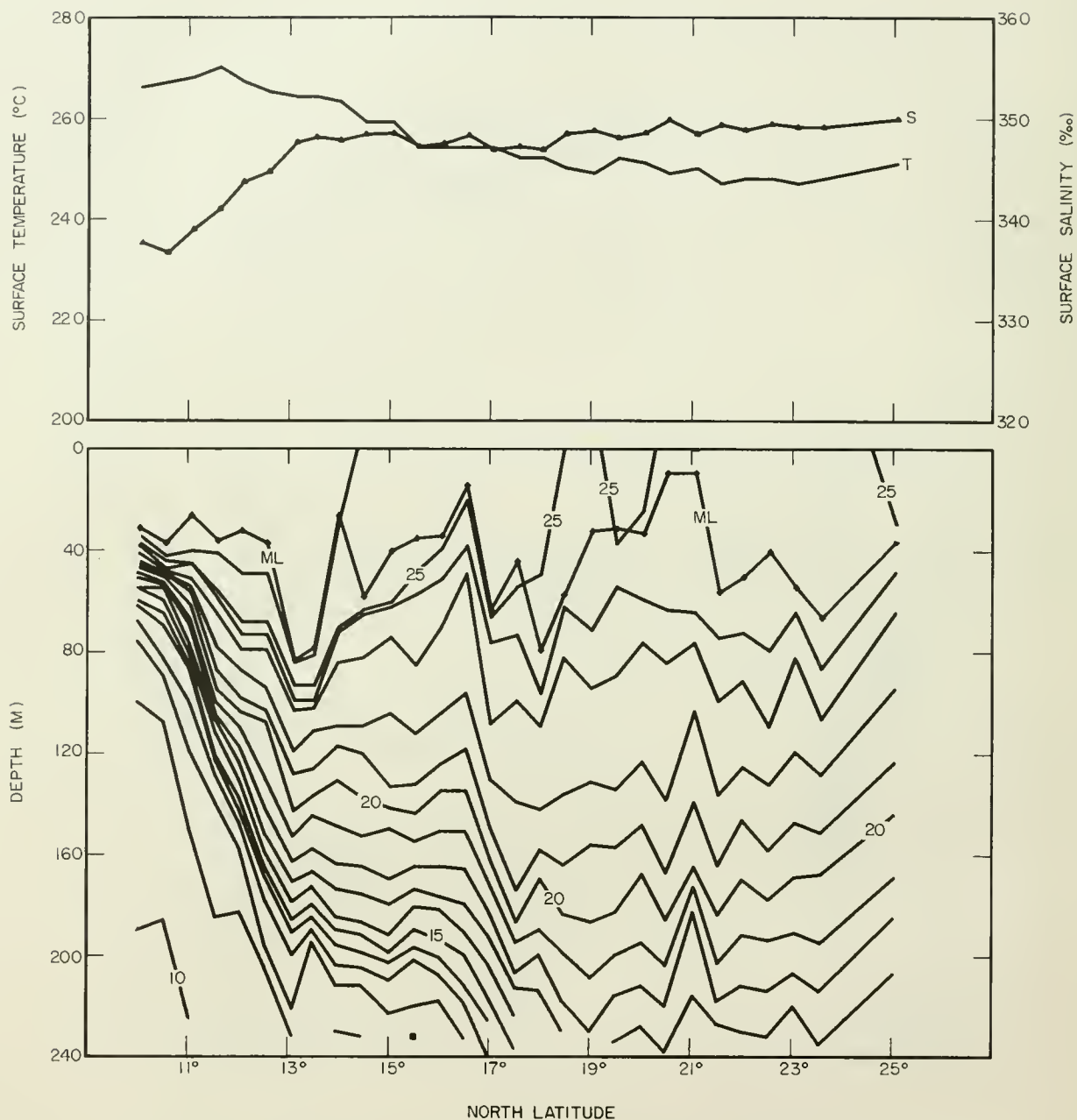


Figure 16.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

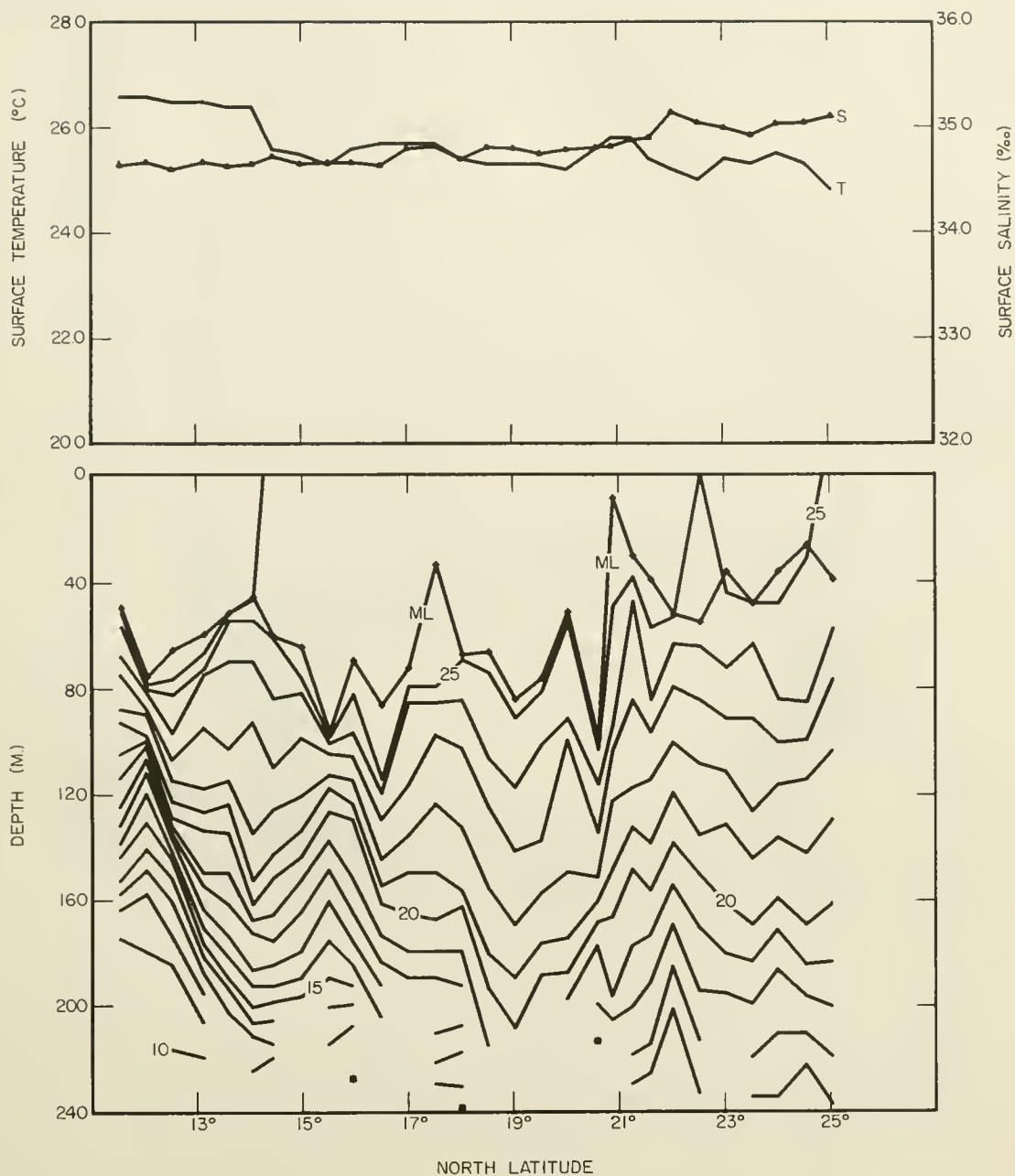


Figure 17.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Crowwell cruise 6 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

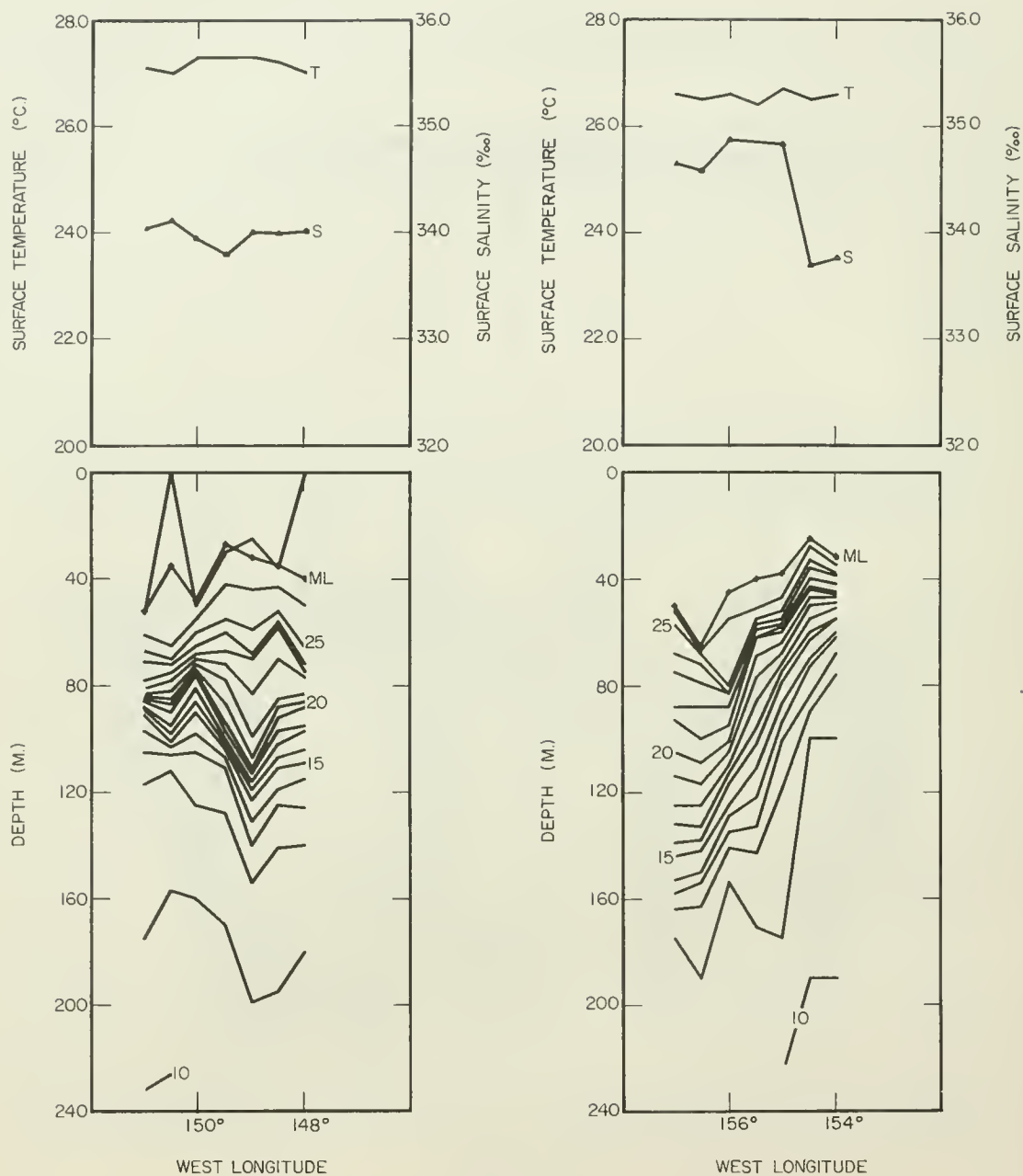


Figure 18.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

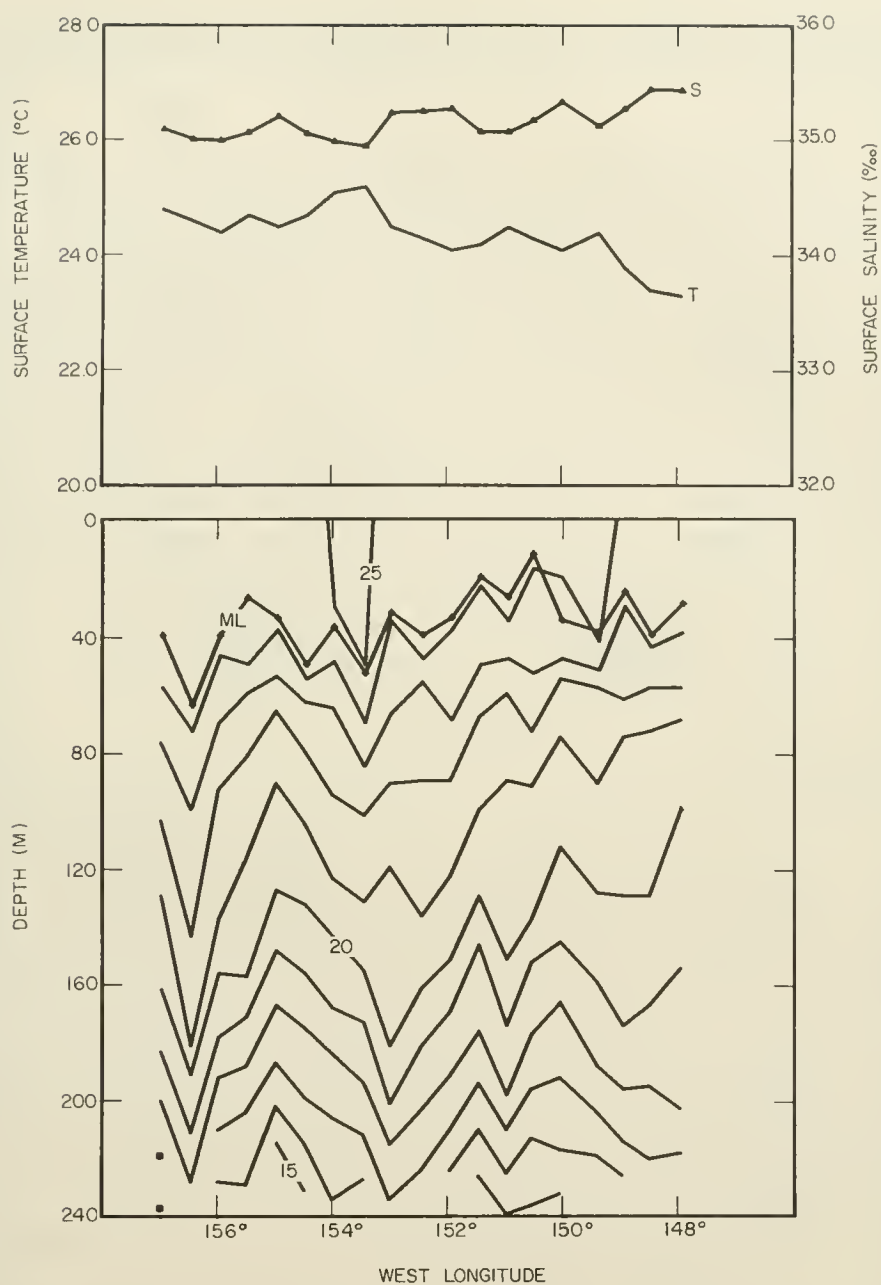


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 6 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

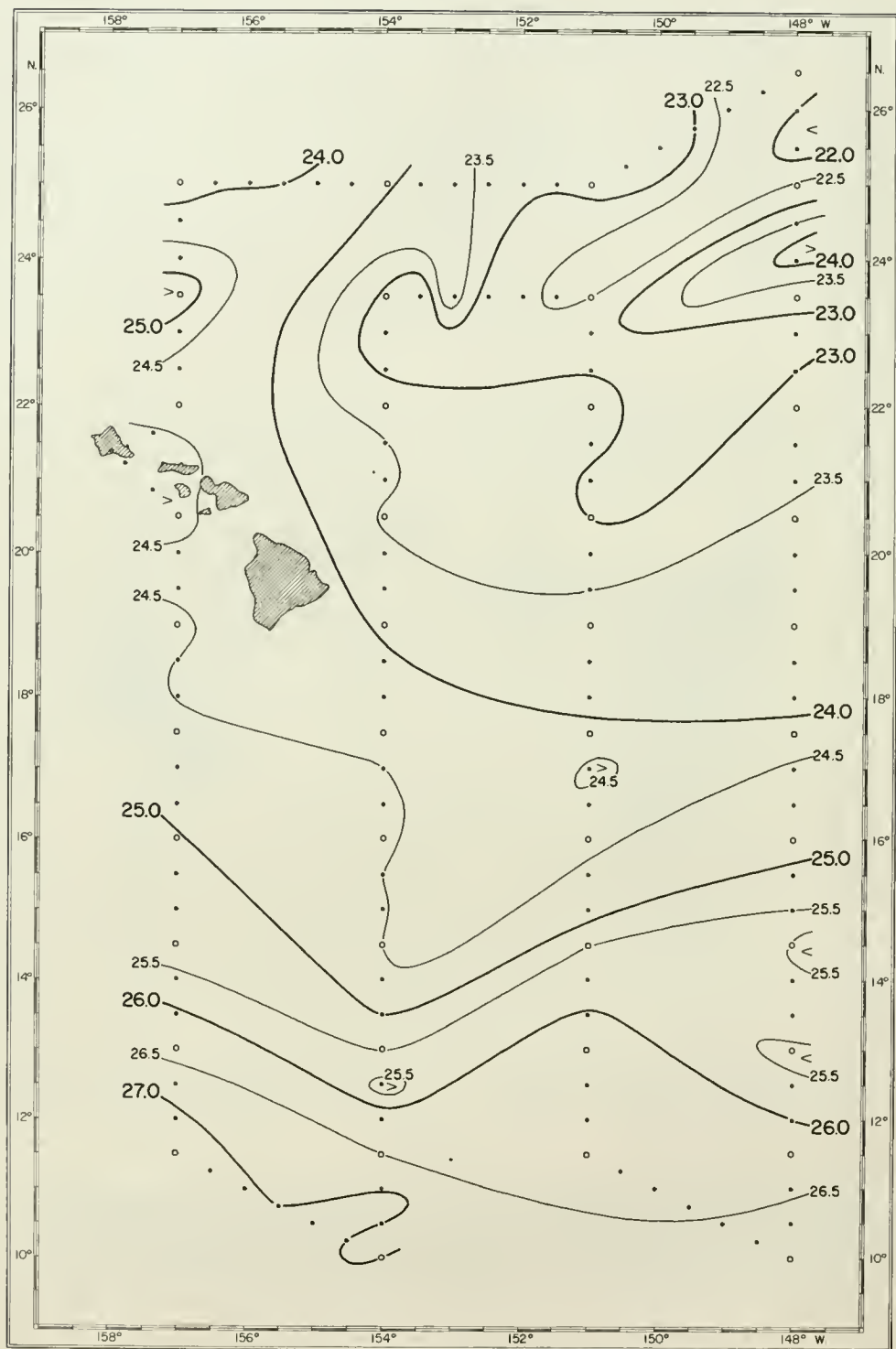


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 4.

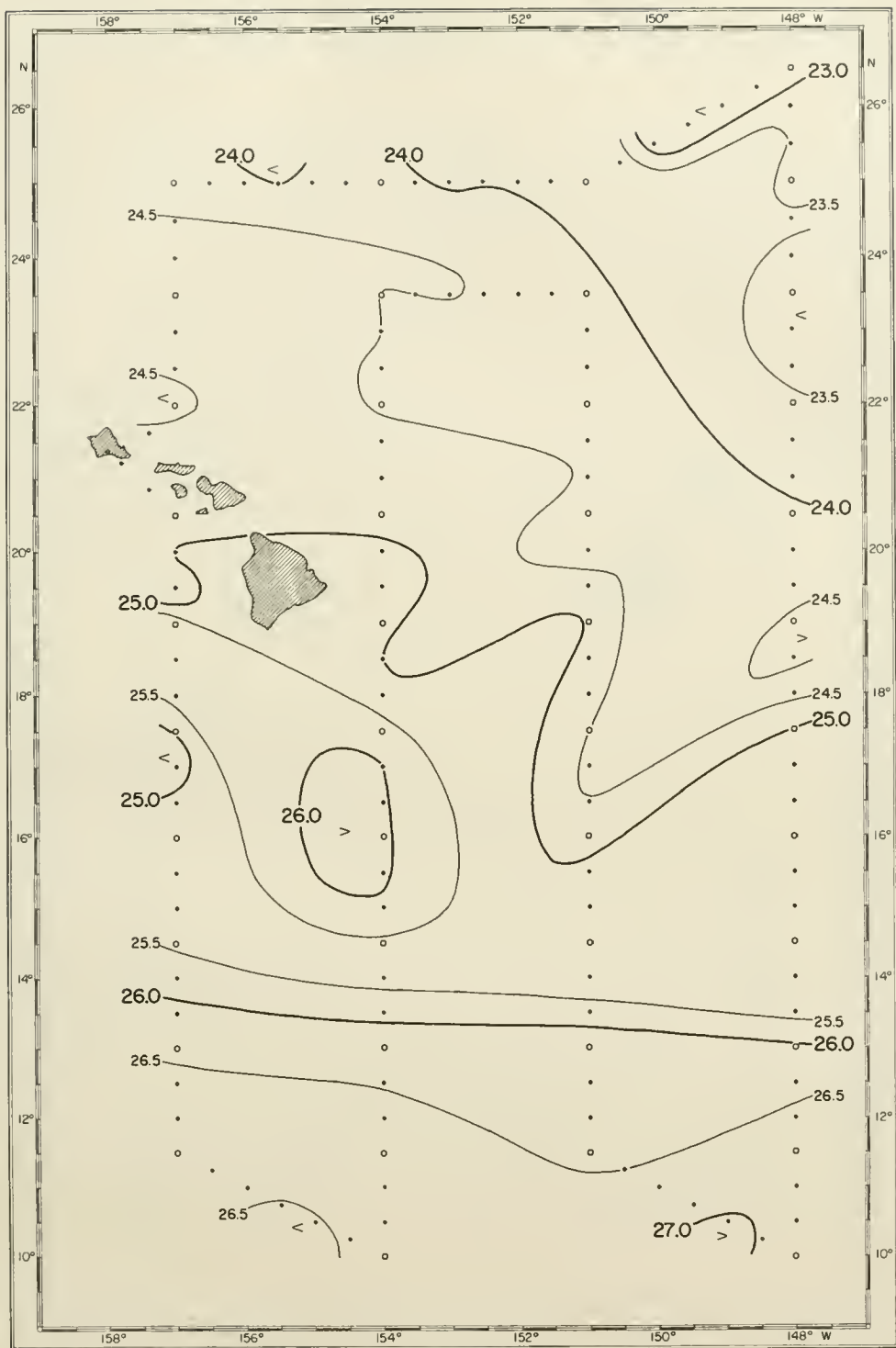


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 5.

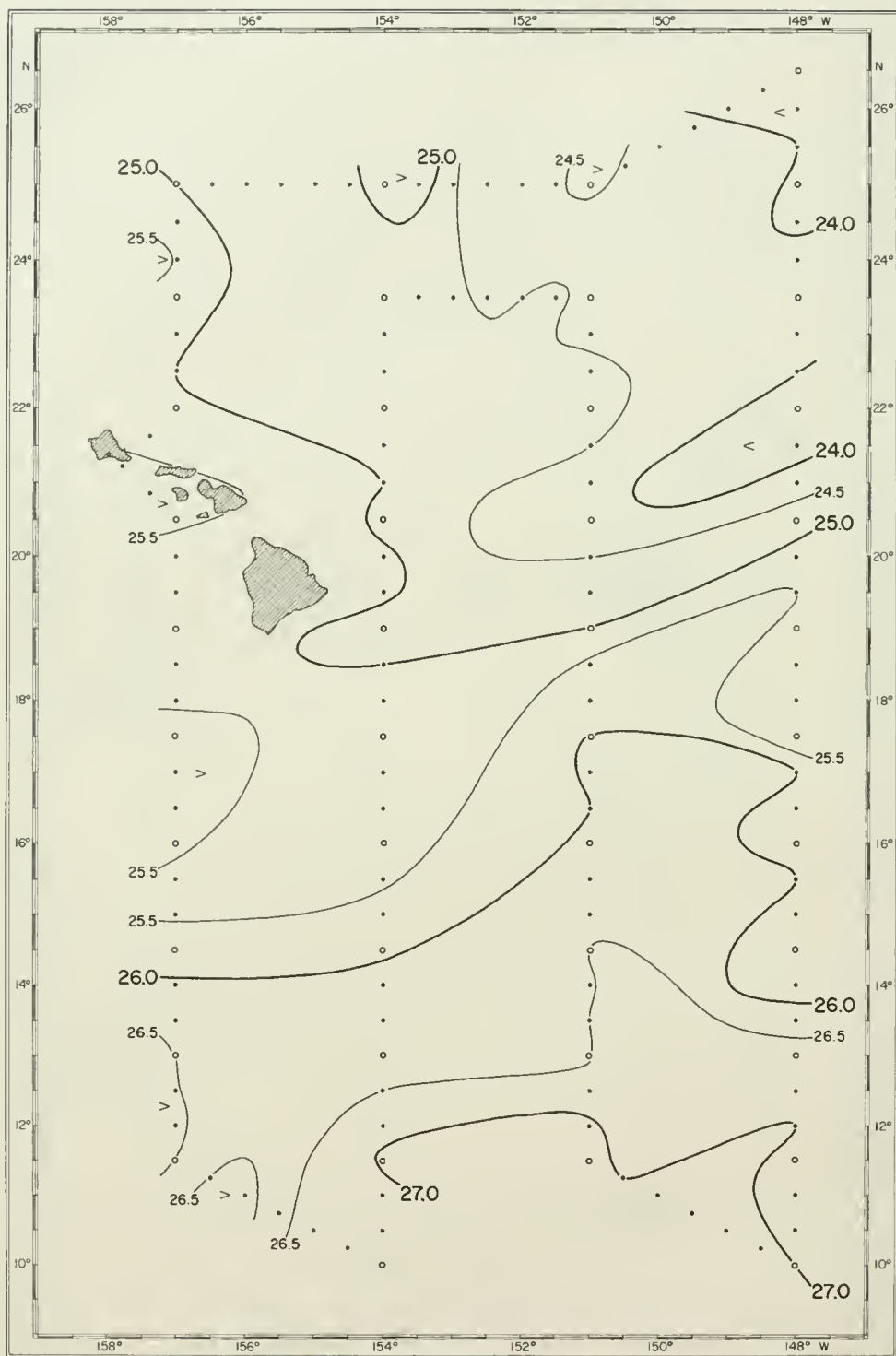


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 6.

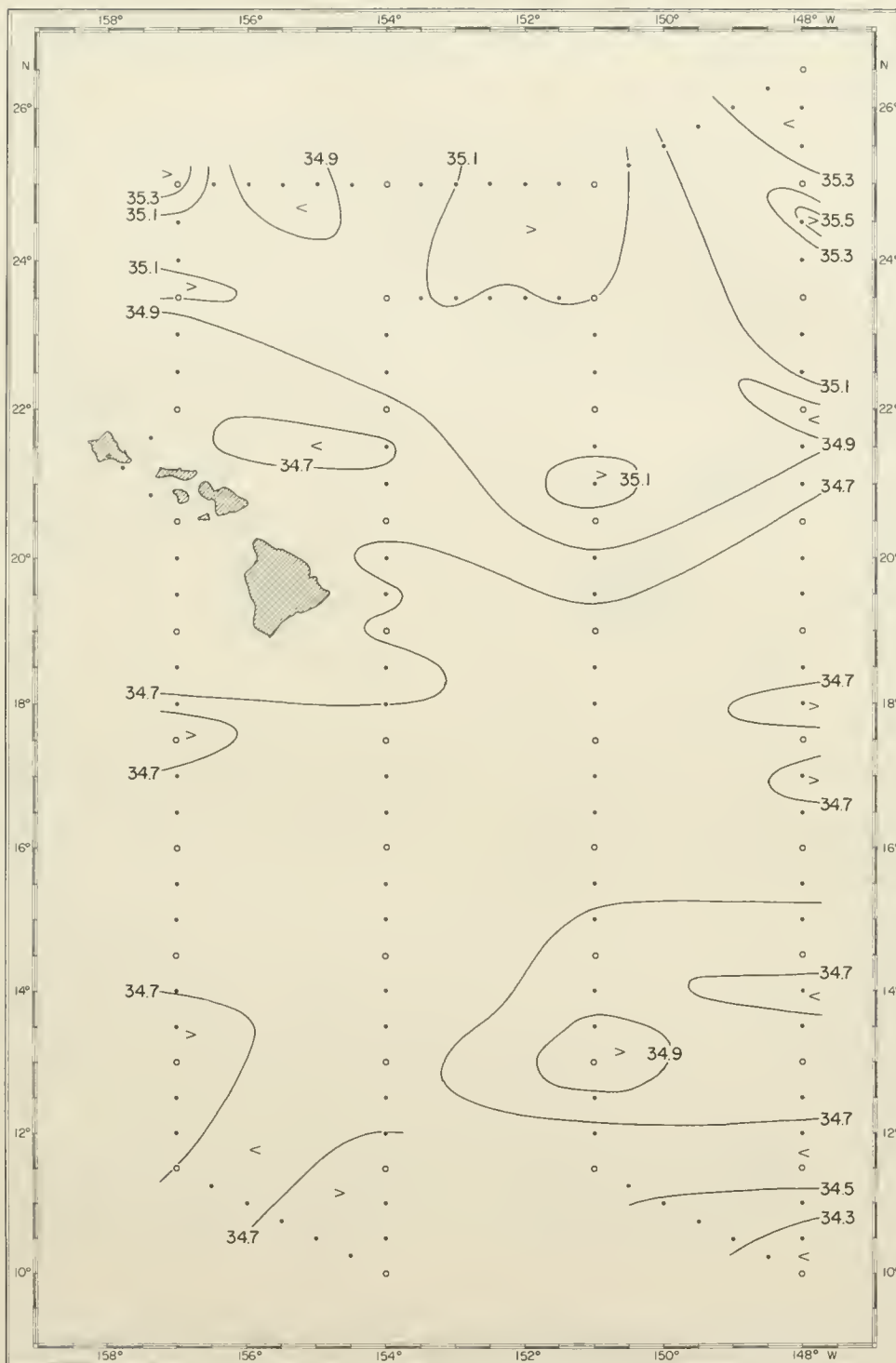


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 4.

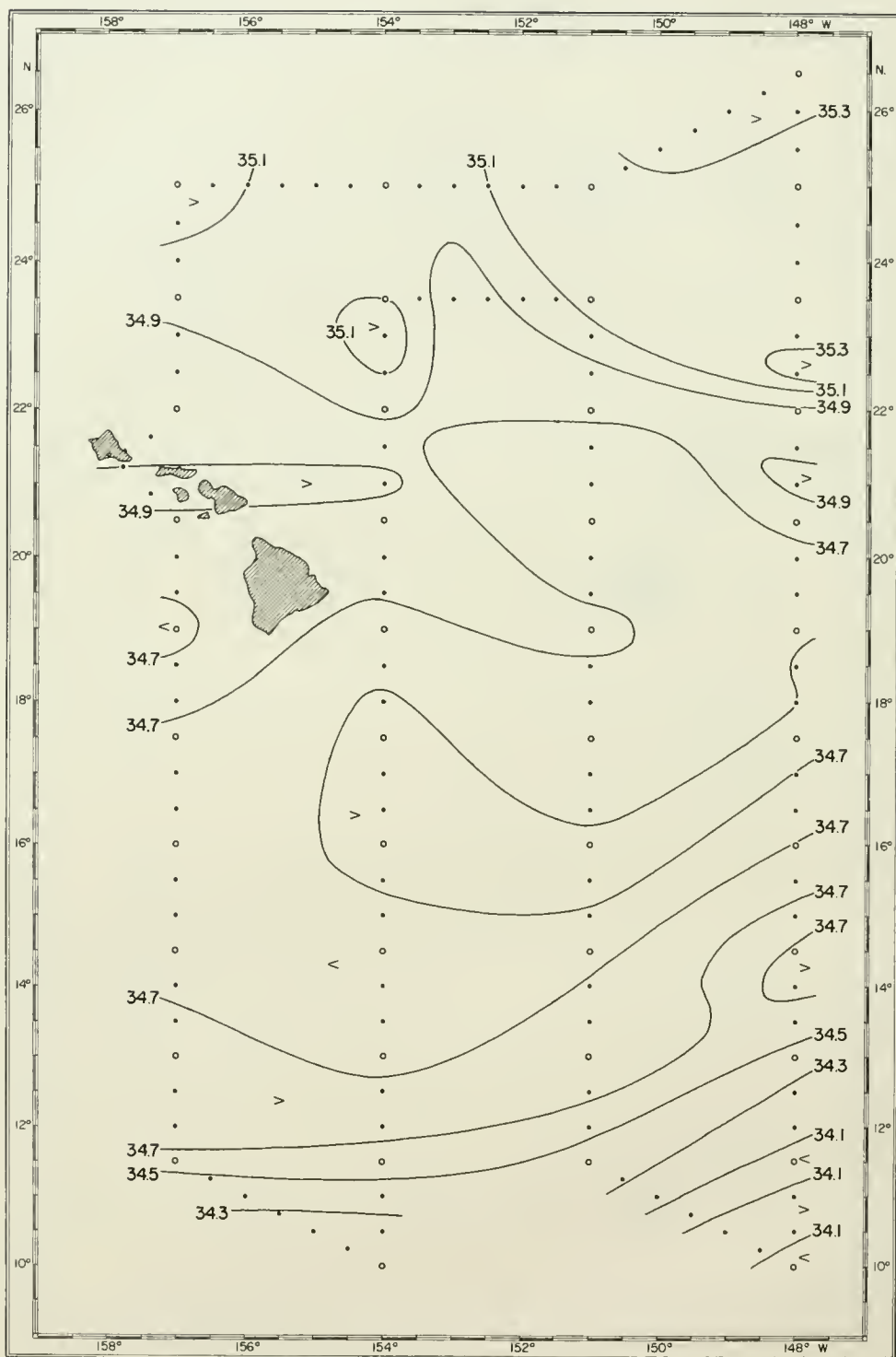


Figure 24.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 5.

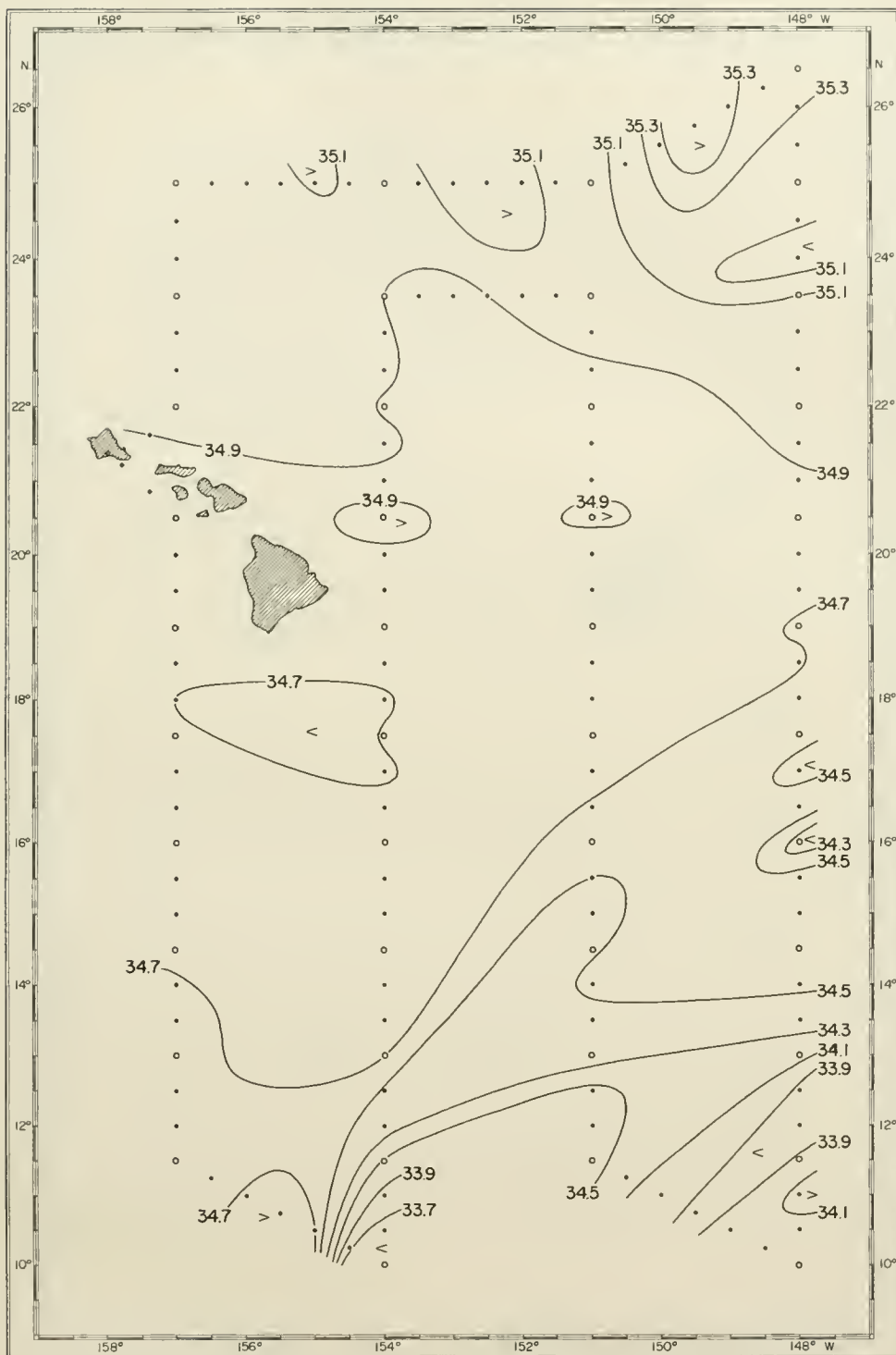


Figure 25.--Surface salinity distribution ($^{\circ}/_{\infty}$) from bucket salinity samples at each ET cast for Townsend Cromwell cruise 6.

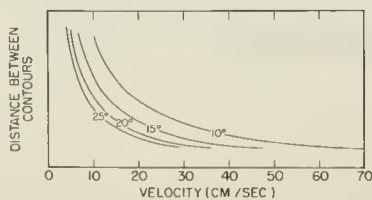
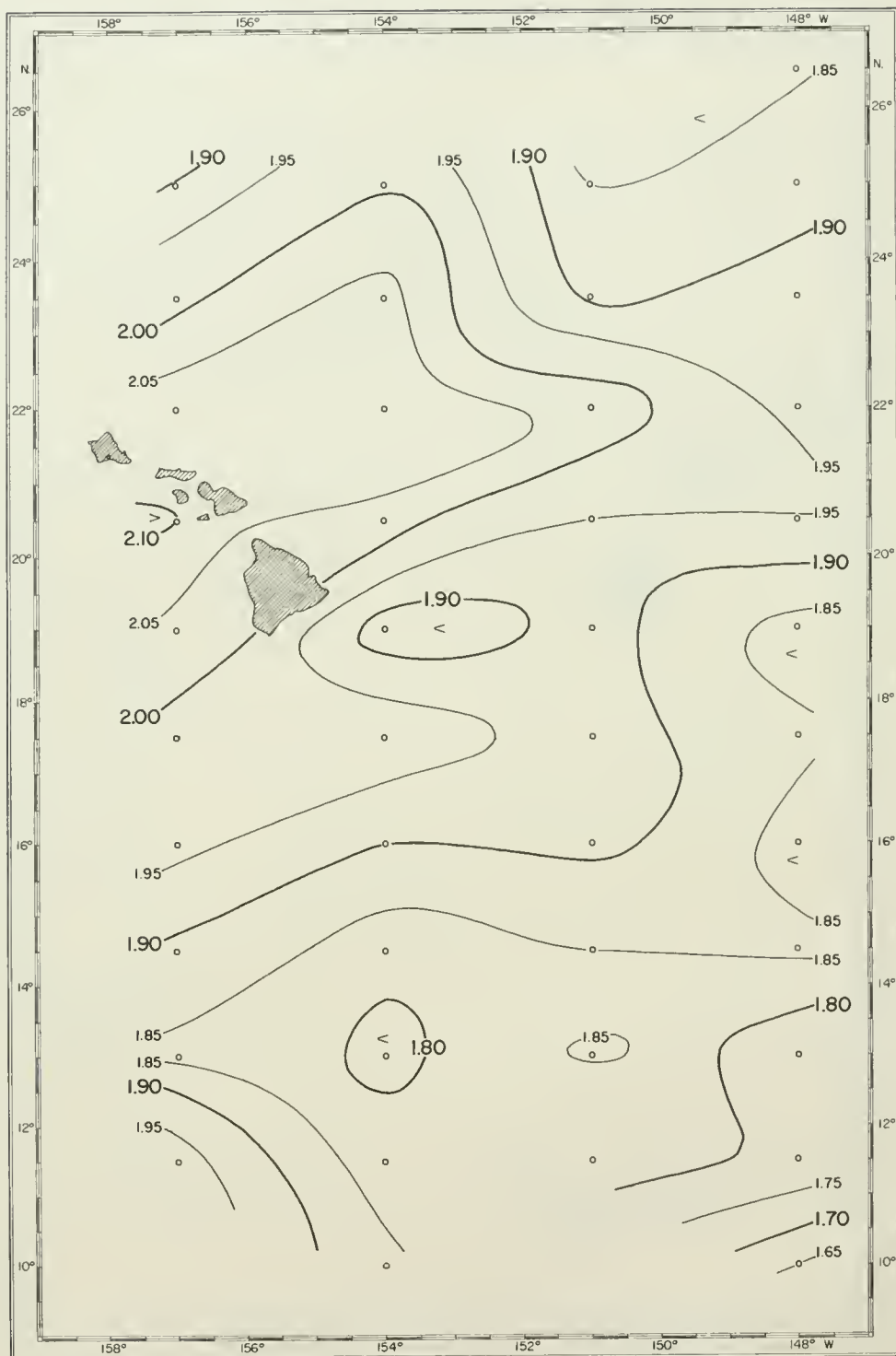


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 4.

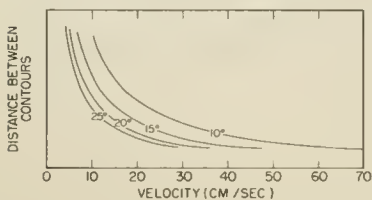
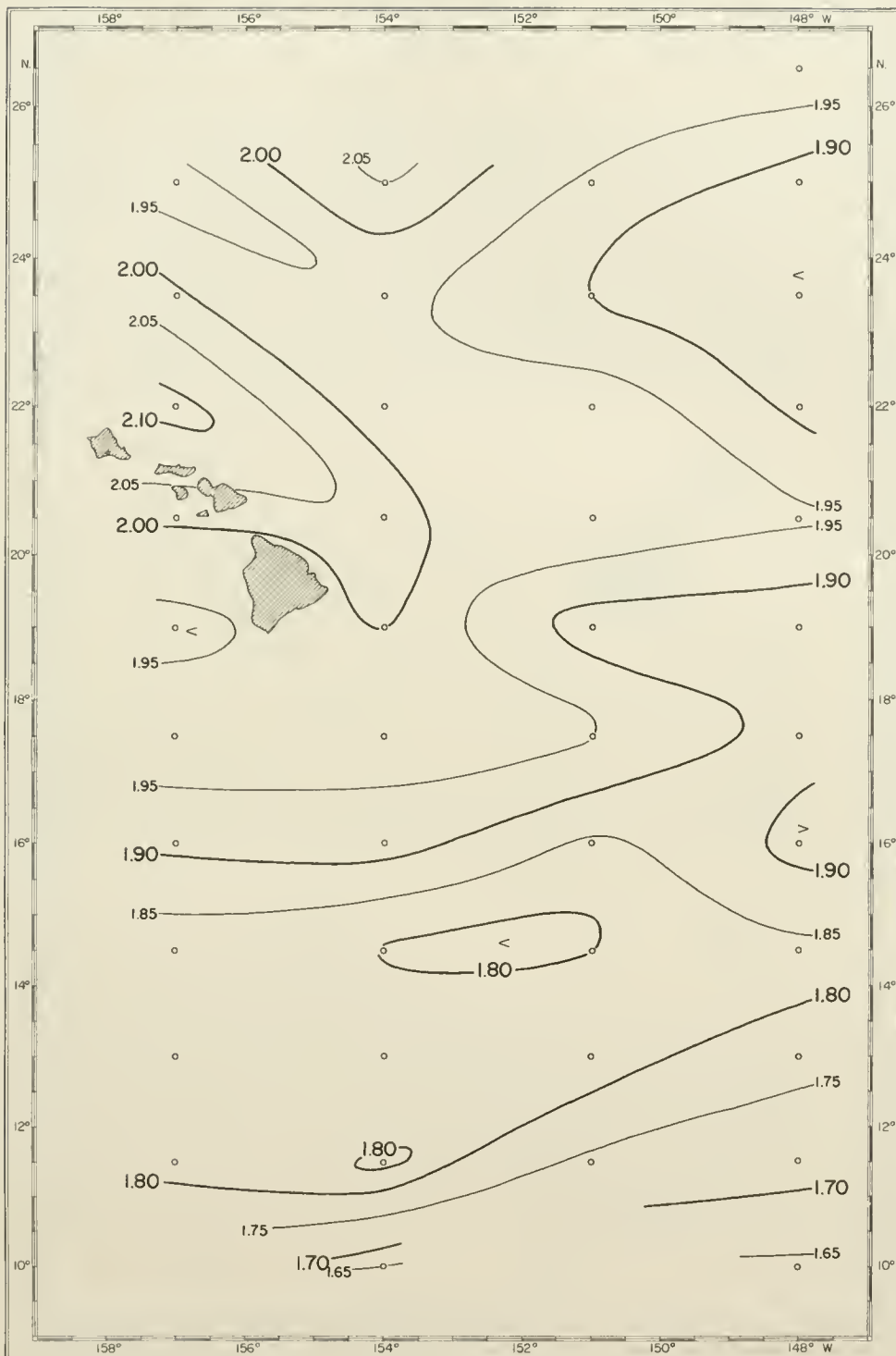


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 5.

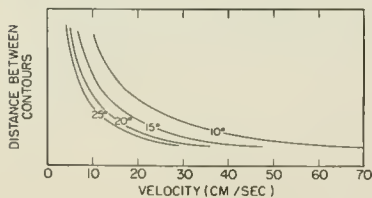
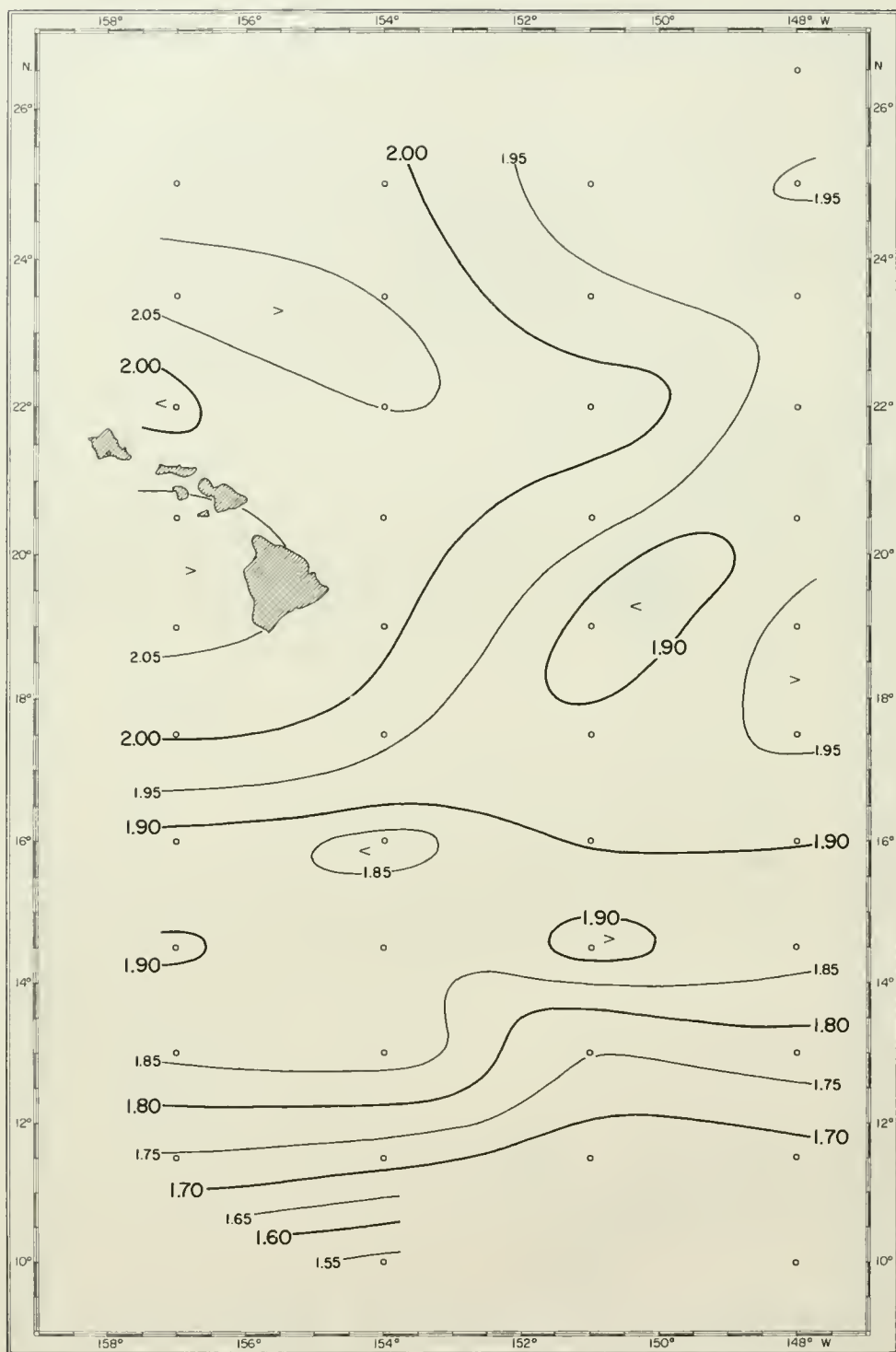


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 6.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as sigma-t; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 4

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 4, STATION 1, 20-35N LAT, 157-15W LONG, MAY 17, 1964, 2400 G.C.T.												
DRY BULB 25.7		WET BULB 19.8		WIND SPEED 03, DIR. 08		BAR. 16		WEATHER 02		VIS. 8 CLOUD TYPE 7, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	25.12	34.84			23.21	467.8	0.	25.12	34.84	23.21	467.8	0.000
9.8	24.80	34.85			23.31	458.2	10.	24.79	34.85	23.31	457.8	0.047
30.	24.75	34.85			23.32	457.6	20.	24.71	34.85	23.34	455.9	0.093
49.	24.71	34.84			23.33	457.9	30.	24.75	34.85	23.32	457.6	0.139
73.	24.34	35.10			23.64	429.5	50.	24.70	34.85	23.34	457.0	0.231
96.	23.43	35.09			23.90	405.4	75.	24.26	35.10	23.66	427.1	0.342
119.	23.00	35.10			24.03	393.7	100.	23.38	35.09	23.91	404.1	0.447
143.	21.27	35.08			24.50	349.5	150.	21.01	35.08	24.57	343.3	0.635
166.	20.29	35.04			24.73	327.9	200.	17.20	34.76	25.30	274.4	0.791
180.	18.98	34.95			25.01	302.2	250.	13.68	34.40	25.81	226.6	0.917
211.	16.30	34.65			25.43	262.5	300.	11.38	34.24	26.13	195.8	1.024
236.	14.60	34.47			25.67	239.7	400.	8.83	34.15	26.50	161.5	1.204
259.	13.13	34.36			25.89	218.8	500.	6.94	34.18	26.80	133.2	1.353
282.	12.03	34.28			26.04	204.3	600.	5.74	34.26	27.02	112.1	1.477
374.	9.42	34.16			26.41	169.8	700.	5.21	34.36	27.17	99.1	1.583
468.	7.50	34.16			26.71	141.9	800.	4.85	34.44	27.27	89.9	1.679
561.	6.05	34.22			26.95	118.7	1000.	4.11	34.51	27.40	77.7	1.848
748.	5.10	34.41			27.22	94.6	1200.	3.53	34.55	27.50	69.1	1.997
935.	4.29	34.49			27.37	80.6						
1122.	3.81	34.53			27.45	73.4						
1406.	3.04	34.57			27.56	63.3						

CROMWELL 4, STATION 2, 19- ON LAT, 157- ON LONG, MAY 17, 1964, 1100 G.C.T.											
DRY BULB 24.2		WET BULB 21.5		WIND SPEED 14, DIR. 05		BAR. 17		WEATHER 00		VIS. 8 CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA DYN.OPTH.
0.	24.64	34.72			23.26	462.6	0.	24.64	34.72	23.26	462.6 0.000
5.	24.60	34.74			23.29	460.2	10.	24.54	34.75	23.31	457.9 0.046
51.	24.10	34.80			23.48	443.4	20.	24.41	34.76	23.36	453.7 0.092
76.	24.10	34.89			23.55	437.9	30.	24.30	34.78	23.40	450.0 0.138
100.	23.62	34.95			23.74	421.0	50.	24.11	34.80	23.48	443.7 0.228
122.	23.15	35.04			23.94	402.3	75.	24.10	34.89	23.55	438.2 0.339
145.	21.92	35.10			24.34	365.3	100.	23.62	34.95	23.74	421.0 0.447
167.	20.60	35.07			24.67	333.7	150.	21.60	35.10	24.42	357.1 0.643
185.	19.94	35.01			24.80	321.9	200.	18.94	34.93	25.00	303.2 0.810
215.	17.74	34.83			25.22	282.4	250.	15.20	34.56	25.61	246.2 0.948
240.	15.76	34.62			25.53	253.6	300.	11.69	34.22	26.06	203.1 1.061
267.	14.22	34.46			25.74	233.5	400.	8.55	34.15	26.55	156.9 1.243
290.	12.25	34.26			25.99	210.1	500.	6.65	34.23	26.89	124.9 1.385
384.	8.98	34.15			26.48	163.7	600.	5.80	34.33	27.07	107.9 1.503
473.	7.01	34.21			26.82	131.3	700.	5.28	34.40	27.19	97.0 1.606
558.	6.09	34.29			27.00	114.0	800.	4.89	34.45	27.27	89.8 1.701
731.	5.17	34.42			27.22	94.6	1000.	4.23	34.49	27.38	80.6 1.873
904.	4.52	34.47			27.33	84.6	1200.	3.64	34.52	27.47	72.5 2.028
1076.	4.02	34.50			27.41	77.8					
1338.	3.28	34.54			27.51	67.9					

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

CROMWELL 4, STATION 3, 17-30N LAT, 157- ON LONG, MAY 18, 1964, 1900 G.C.T.											
DRY BULB 25.0		WET BULB 22.0		WIND SPEED 18, DIR. 09		BAR. 17		WEATHER 03		VIS. 8	
CLOUD TYPE 7, COVER 3											
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA
0.	24.58	34.64			23.22	466.6	0.	24.58	34.64	23.22	466.6
10.	24.59	34.63			23.21	468.0	10.	24.59	34.63	23.21	468.0
30.	24.62	34.64			23.21	469.0	20.	24.60	34.63	23.20	468.6
50.	24.64	34.64			23.20	470.3	30.	24.62	34.64	23.21	469.0
71.	24.59	34.64			23.21	469.7	50.	24.64	34.64	23.20	470.3
95.	23.44	34.84			23.71	423.7	75.	24.42	34.67	23.28	463.1
119.	22.75	35.01			24.03	393.3	100.	23.31	34.88	23.78	417.0
142.	21.44	35.01			24.40	359.0	150.	21.06	35.03	24.52	348.0
166.	20.32	35.04			24.73	328.7	200.	18.34	34.84	25.09	295.2
189.	19.18	34.93			24.94	308.9	250.	13.88	34.39	25.76	231.2
212.	17.28	34.73			25.26	278.9	300.	10.96	34.19	26.17	192.0
236.	14.94	34.48			25.60	246.1	400.	7.83	34.14	26.64	147.2
258.	13.34	34.35			25.84	223.6	500.	6.32	34.24	26.93	120.1
281.	11.88	34.24			26.04	204.5	600.	5.73	34.38	27.11	103.5
372.	8.54	34.14			26.54	157.3	700.	5.32	34.45	27.22	94.0
461.	6.72	34.18			26.83	129.3	800.	4.94	34.48	27.29	88.1
549.	6.00	34.32			27.04	110.5	1000.	4.20	34.52	27.40	78.1
726.	5.24	34.46			27.24	92.5	1200.	3.60	34.55	27.49	69.7
903.	4.54	34.49			27.34	83.3					
1082.	3.94	34.54			27.45	73.9					
1364.	3.20	34.58			27.55	64.2					

ΔFROM ST DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL		4, STATION	4, 15-58N LAT, 157-1W LONG, MAY	19, 1964, 0400 G.C.T.	WET BULB		WIND SPEED	14, DIR. CB	8AR. 14	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	25.40	34.56			22.91	496.2	0.	25.40	34.56	22.91	496.2	0.000		
11.	25.36	34.56			22.92	495.4	10.	25.36	34.56	22.92	495.5	0.050		
54.	25.20	34.54			22.95	493.9	20.	25.37	34.54	22.90	497.5	0.100		
78.	24.65	34.70			23.24	467.4	30.	25.35	34.53	22.90	498.3	0.150		
104.	23.87	34.80			23.55	439.0	50.	25.24	34.53	22.94	495.2	0.250		
131.	22.23	34.96			24.14	383.2	75.	24.73	34.68	23.20	471.2	0.372		
157.	20.15	35.00			24.74	326.9	100.	24.02	34.79	23.49	444.2	0.487		
182.	18.07	34.83			25.14	289.1	150.	20.74	35.01	24.59	341.3	0.685		
209.	16.23	34.63			25.43	262.3	200.	16.87	34.70	25.33	271.2	0.839		
234.	13.66	34.38			25.80	227.1	250.	12.76	34.29	25.91	216.3	0.962		
260.	12.31	34.26			25.97	210.5	300.	10.14	34.21	26.33	176.7	1.061		
286.	10.75	34.20			26.22	187.3	400.	8.11	34.34	26.76	136.6	1.220		
311.	9.73	34.22			26.41	169.2	500.	6.89	34.40	26.99	115.7	1.347		
416.	7.99	34.36			26.79	133.5	600.	6.16	34.45	27.12	103.7	1.458		
519.	6.69	34.41			27.02	112.8	700.	5.61	34.48	27.21	95.4	1.558		
621.	6.06	34.46			27.14	101.9	800.	5.09	34.50	27.29	88.6	1.651		
828.	4.95	34.50			27.31	87.0	1000.	4.23	34.53	27.41	77.8	1.820		
1030.	4.12	34.53			27.42	76.4	1200.	3.59	34.56	27.50	69.5	1.969		
1233.	3.50	34.56			27.51	68.3	1500.	2.86	34.60	27.60	59.9	2.166		
1536.	2.80	34.60			27.61	59.0								

CROMWELL		4, STATION	5, 14-30N LAT, 156-59W LONG, MAY	19, 1964, 1200 G.C.T.	WET BULB		WIND SPEED	15, DIR. 06	8AR. 15	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 0		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	25.25	34.50			22.91	496.1	0.	25.25	34.50	22.91	496.1	0.000		
10.	25.26	34.50			22.91	496.8	10.	25.26	34.50	22.91	496.8	0.050		
30.	25.26	34.50			22.91	497.6	20.	25.26	34.50	22.91	497.2	0.100		
50.	25.26	34.50			22.91	498.4	30.	25.26	34.50	22.91	497.6	0.150		
75.	24.41	34.71			23.32	459.7	50.	25.26	34.50	22.91	498.4	0.251		
99.	23.86	34.86			23.60	434.2	75.	24.41	34.71	23.32	459.7	0.371		
125.	22.29	35.04			24.19	378.9	100.	23.82	34.87	23.62	432.4	0.484		
148.	20.20	35.02			24.74	326.4	150.	19.95	35.00	24.79	321.8	0.674		
173.	17.12	34.70			25.27	276.1	200.	14.59	34.42	25.63	242.1	0.816		
198.	14.83	34.44			25.60	245.6	250.	10.62	34.23	26.26	182.1	0.923		
222.	12.14	34.26			26.01	206.4	300.	8.98	34.23	26.54	156.4	1.008		
248.	10.72	34.23			26.25	183.8	400.	7.97	34.44	26.86	126.7	1.151		
272.	9.69	34.23			26.42	167.0	500.	7.10	34.48	27.02	112.9	1.272		
296.	9.05	34.22			26.52	157.9	600.	6.21	34.50	27.15	100.7	1.380		
395.	8.01	34.44			26.85	127.6	700.	5.63	34.51	27.23	93.8	1.478		
492.	7.18	34.48			27.01	114.1	800.	5.20	34.51	27.29	89.0	1.570		
590.	6.28	34.50			27.14	101.5	1000.	4.39	34.54	27.40	78.5	1.740		
785.	5.27	34.51			27.28	89.8	1200.	3.70	34.58	27.50	69.2	1.889		
980.	4.47	34.54			27.39	79.5								
1174.	3.78	34.58			27.50	69.8								
1468.	2.98	34.61			27.60	60.0								

CROMWELL		4, STATION	6, 13-9N LAT, 157-3W LONG, MAY	19, 1964, 2200 G.C.T.	WET BULB		WIND SPEED	20, DIR. 06	8AR. 14	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
1.	26.56	34.71			22.66	519.9	0.	26.56	34.71	22.66	519.9	0.000		
40.	26.53	34.70			22.66	521.3	10.	26.58	34.71	22.65	521.1	0.052		
50.	26.48	34.70			22.68	520.2	20.	26.58	34.70	22.65	521.7	0.105		
62.	26.43	34.71			22.70	518.4	30.	26.56	34.70	22.65	521.8	0.158		
75.	26.36	34.70			22.72	517.6	50.	26.48	34.70	22.68	520.2	0.262		
85.	24.36	34.46			23.15	476.6	75.	26.36	34.70	22.72	517.6	0.393		
109.	21.39	34.78			24.24	373.1	100.	22.34	34.61	23.85	410.3	0.510		
133.	18.68	34.70			24.89	311.4	150.	16.02	34.53	25.40	263.2	0.680		
156.	15.07	34.46			25.56	248.0	200.	11.34	34.28	26.18	189.6	0.794		
179.	12.26	34.24			25.97	209.0	250.	10.07	34.40	26.49	160.3	0.882		
203.	11.28	34.30			26.20	187.4	300.	9.76	34.55	26.66	145.4	0.959		
227.	10.53	34.39			26.40	168.3	400.	8.13	34.47	26.86	126.8	1.096		
250.	10.07	34.40			26.49	160.3	500.	7.14	34.50	27.03	112.1	1.217		
274.	10.08	34.52			26.58	152.1	600.	6.46	34.54	27.15	101.4	1.325		
366.	8.58	34.48			26.80	132.7	700.	5.84	34.54	27.23	94.4	1.424		
461.	7.45	34.48			26.97	117.5	800.	5.33	34.53	27.29	89.1	1.517		
553.	6.78	34.53			27.10	105.7	1000.	4.52	34.55	27.39	79.8	1.687		
739.	5.62	34.53			27.25	92.4	1200.	3.85	34.56	27.48	72.0	1.841		
924.	4.81	34.54			27.35	83.3								
1110.	4.14	34.56			27.44	75.2								
1387.	3.35	34.58			27.54	66.2								

SALINITY ERROR TERM AT 100. METERS IS 0.07

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 4, STATION 7, 11-30N LAT, 157- 2W LONG, MAY 20, 1964, 0700 G.C.T.				DRY BULB 27.2 WET BULB 24.6 WIND SPEED 18, DIR. 06 BAR. 13 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 4								
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.Δ	27.42	34.56			22.27	556.9	0.	27.42	34.56	22.27	556.9	0.000
30.Δ	27.35	34.58			22.31	554.5	10.	27.39	34.57	22.29	556.1	0.056
50.Δ	27.32	34.60			22.34	553.0	20.	27.37	34.57	22.30	555.3	0.112
75.Δ	27.30	34.64			22.37	550.5	30.	27.35	34.58	22.31	554.5	0.168
86.	27.29	34.66			22.39	549.2	50.	27.32	34.60	22.34	553.0	0.279
97.	16.40	34.50			25.29	272.1	75.	27.30	34.64	22.37	550.5	0.418
102.	14.33	34.44			25.70	232.6	100.	14.98	34.46	25.58	244.6	0.519
107.	13.47	34.48			25.91	212.6	150.	11.62	34.71	26.46	162.0	0.621
118.	12.96	34.60			26.11	194.3	200.	10.80	34.72	26.61	148.0	0.699
144.	11.79	34.70			26.42	165.7	250.	10.30	34.72	26.70	140.6	0.772
171.	11.21	34.73			26.55	153.8	300.	9.91	34.70	26.75	136.6	0.842
198.	10.82	34.72			26.61	148.3	400.	8.93	34.66	26.89	125.3	0.974
224.	10.58	34.72			26.65	144.8	500.	8.27	34.60	26.94	121.2	1.098
250.	10.30	34.72			26.70	140.6	600.	7.43	34.56	27.03	113.4	1.217
277.	10.13	34.70			26.72	139.8	700.	6.63	34.54	27.13	104.7	1.327
303.	9.88	34.70			26.76	136.1	800.	5.92	34.54	27.22	96.5	1.429
408.	8.86	34.66			26.89	124.7	1000.	4.85	34.56	27.36	83.2	1.611
508.	8.22	34.60			26.95	120.9	1200.	4.09	34.58	27.46	73.9	1.770
607.	7.37	34.56			27.04	112.8	1500.	3.17	34.60	27.57	63.3	1.979
808.	5.87	34.54			27.23	95.9						
1007.	4.82	34.56			27.37	82.8						
1206.	4.07	34.58			27.47	73.7						
1504.	3.16	34.60			27.57	63.2						

CROMWELL 4, STATION 7A, 10- ON LAT, 154- OW LONG, MAY 21, 1964, 0300 G.C.T.													
DRY BULB 27.3		WET BULB 24.8		WIND SPEED 14, DIR. 10		BAR. 10		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.Δ	27.14	34.82			22.56	529.6	0.	27.14	34.82	22.56	529.6	0.000	
11.Δ	27.11	34.82			22.57	529.1	10.	27.11	34.82	22.57	529.1	0.053	
30.Δ	27.06	34.82			22.58	528.4	20.	27.09	34.82	22.58	528.8	0.107	
50.Δ	27.00	34.82			22.60	527.3	30.	27.06	34.82	22.58	528.4	0.160	
77.	26.87	34.82			22.65	524.5	50.	27.00	34.82	22.60	527.3	0.266	
102.	26.09	34.78			22.86	504.8	75.	26.89	34.82	22.64	525.0	0.399	
113.	19.36	34.55			24.60	338.2	100.	26.54	34.80	22.73	516.9	0.530	
123.	15.18	34.46			25.54	249.4	150.	12.34	34.60	26.23	183.3	0.706	
133.	13.40	34.40			25.87	217.8	200.	11.41	34.76	26.54	155.6	0.792	
153.	12.30	34.65			26.28	179.0	250.	10.79	34.75	26.64	146.8	0.868	
178.	11.75	34.76			26.47	161.4	300.	10.33	34.72	26.70	141.8	0.941	
204.	11.36	34.76			26.54	155.0	400.	9.49	34.68	26.81	133.0	1.079	
229.	11.05	34.75			26.59	150.9	500.	8.47	34.62	26.93	123.0	1.209	
255.	10.73	34.75			26.65	145.9	600.	7.53	34.58	27.03	113.5	1.328	
280.	10.47	34.74			26.69	142.7	700.	6.58	34.55	27.15	103.2	1.438	
306.	10.29	34.72			26.70	141.6	800.	5.72	34.54	27.25	93.7	1.537	
406.	9.43	34.68			26.82	132.3	1000.	4.65	34.56	27.39	80.6	1.714	
505.	8.42	34.62			26.93	122.5	1200.	3.84	34.57	27.48	71.3	1.867	
606.	7.48	34.58			27.04	112.9							
805.	5.68	34.54			27.25	93.3							
1005.	4.63	34.56			27.39	80.3							
1156.	3.98	34.57			27.47	72.8							
1382.	3.36	34.58			27.54	66.3							

TEMPERATURE ERROR TERM AT 100. METERS IS 0.24

CROMWELL 4, STATION 8, 11-32N LAT, 153-59W LONG, MAY 21, 1964, 1200 G.C.T.												
DRY BULB 26.7		WET BULB 24.1		WIND SPEED 20, DIR. 08		BAR. 12		WEATHER 00		VIS. 7		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	GXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	26.70	34.68			22.59	526.2	0.	26.70	34.68	22.59	526.2	0.000
10.Δ	26.70	34.68			22.59	526.6	10.	26.70	34.68	22.59	526.6	0.053
30.Δ	26.68	34.68			22.60	526.9	20.	26.75	34.69	22.58	528.2	0.106
50.Δ	25.70	34.58			22.83	505.5	30.	26.68	34.68	22.60	526.9	0.159
69.	24.19	34.49			23.22	468.7	50.	25.70	34.58	22.83	505.5	0.263
80.	23.54	34.57			23.47	445.4	75.	23.89	34.52	23.33	458.6	0.365
91.	21.83	34.80			24.13	382.6	100.	20.69	34.84	24.48	350.1	0.487
101.	20.57	34.84			24.51	347.2	150.	13.98	34.38	25.73	231.6	0.633
113.	19.16	34.81			24.85	314.4	200.	10.88	34.39	26.34	174.0	0.735
123.	18.23	34.75			25.04	296.7	250.	10.36	34.57	26.58	152.3	0.818
149.	14.08	34.38			25.71	233.2	300.	10.04	34.63	26.68	143.6	0.892
176.	12.13	34.37			26.09	197.0	400.	8.98	34.61	26.84	130.0	1.030
202.	10.81	34.39			26.35	172.5	500.	8.13	34.57	26.94	121.4	1.157
228.	10.62	34.53			26.50	159.5	600.	7.28	34.54	27.04	112.6	1.275
256.	10.29	34.58			26.59	150.8	700.	6.43	34.54	27.15	102.5	1.364
307.	10.01	34.64			26.69	142.8	800.	5.67	34.54	27.25	93.2	1.483
413.	8.82	34.60			26.85	128.5	1000.	4.66	34.54	27.37	82.2	1.660
514.	8.03	34.57			26.95	120.3	1200.	3.93	34.57	27.47	72.7	1.817
613.	7.17	34.54			27.05	111.4	1500.	3.09	34.60	27.58	62.4	2.023
812.	5.59	34.54			27.26	92.2						
1010.	4.62	34.54			27.38	81.7						
1208.	3.90	34.57			27.48	72.3						
1506.	3.08	34.60			27.58	62.2						

APROM ST DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		4, STATION		9, 13- 4N LAT, 154- 0W LONG, MAY		21, 1964, 2200 G.C.T.							
ORY BULB 25.7		WET BULB 23.2		WIND SPEED 23, DIR. 08		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.98	34.45			22.95	491.9	0.	24.98	34.45	22.95	491.9	0.000	
10.	24.94	34.46			22.97	490.4	10.	24.94	34.46	22.97	490.4	0.049	
51.	24.34	34.51			23.19	471.1	20.	24.87	34.47	23.00	488.0	0.099	
75.	23.55	34.55			23.45	446.9	30.	24.75	34.48	23.05	484.1	0.148	
98.	21.11	34.94			24.44	353.8	50.	24.36	34.51	23.18	471.9	0.244	
126.	19.19	34.94			24.95	306.2	75.	23.55	34.55	23.45	446.9	0.360	
150.	16.30	34.59			25.38	264.9	100.	20.98	34.96	24.49	349.3	0.460	
175.	13.36	34.30			25.80	225.5	150.	16.30	34.59	25.38	264.9	0.615	
200.	11.49	34.26			26.13	194.0	200.	11.49	34.26	26.13	194.0	0.730	
225.	10.70	34.34			26.34	174.8	250.	10.31	34.43	26.47	162.4	0.820	
251.	10.30	34.43			26.48	161.9	300.	9.78	34.56	26.67	144.7	0.898	
274.	10.00	34.52			26.60	150.8	400.	8.56	34.56	26.86	127.2	1.035	
300.	9.78	34.56			26.67	144.7	500.	7.79	34.57	26.99	116.5	1.158	
399.	8.57	34.56			26.86	127.3	600.	6.68	34.52	27.11	105.7	1.270	
498.	7.81	34.57			26.99	116.8	700.	5.98	34.51	27.19	98.4	1.373	
596.	6.71	34.52			27.10	106.0	800.	5.48	34.52	27.26	91.9	1.469	
793.	5.52	34.52			27.25	92.5	1000.	4.57	34.59	27.42	77.3	1.641	
988.	4.62	34.59			27.42	77.8	1200.	3.84	34.60	27.51	69.2	1.789	
1183.	3.92	34.58			27.48	71.6							
1474.	3.06	34.60			27.58	61.8							

CROMWELL		4, STATION		10, 14-30N LAT, 154- 2W LONG, MAY		22, 1964, 0800 G.C.T.							
ORY BULB 25.3		WET BULB 22.6		WIND SPEED 24, DIR. 08		BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.56	34.52			23.13	474.7	0.	24.56	34.52	23.13	474.7	0.000	
11.	24.60	34.50			23.11	477.7	10.	24.60	34.50	23.11	477.6	0.048	
30. Δ	24.58	34.51			23.12	477.2	20.	24.60	34.50	23.11	478.0	0.096	
50. Δ	24.50	34.52			23.15	474.9	30.	24.58	34.51	23.12	477.2	0.144	
71.	24.22	34.54			23.25	466.3	50.	24.50	34.52	23.15	474.9	0.240	
94.	22.81	34.96			23.98	397.6	75.	24.04	34.61	23.36	456.4	0.357	
120.	20.46	35.06			24.70	329.1	100.	22.28	35.01	24.17	379.7	0.463	
144.	18.66	34.90			25.05	296.8	150.	18.07	34.84	25.15	287.4	0.631	
168.	16.23	34.64			25.44	260.3	200.	13.22	34.37	25.88	218.5	0.758	
192.	14.08	34.42			25.74	231.5	250.	10.24	34.42	26.48	161.5	0.854	
216.	11.66	34.31			26.14	193.8	300.	9.40	34.49	26.68	143.5	0.931	
240.	10.54	34.40			26.41	168.0	400.	8.25	34.52	26.88	125.2	1.067	
263.	9.94	34.44			26.54	155.4	500.	7.40	34.52	27.00	114.6	1.188	
287.	9.58	34.48			26.64	147.1	600.	6.51	34.51	27.12	104.3	1.298	
382.	8.41	34.52			26.86	127.5	700.	5.79	34.50	27.21	96.4	1.400	
476.	7.63	34.52			26.97	117.4	800.	5.21	34.51	27.28	89.4	1.493	
570.	6.75	34.51			27.09	107.0	1000.	4.35	34.54	27.41	78.0	1.663	
756.	5.45	34.50			27.25	92.6	1200.	3.68	34.57	27.50	69.7	1.812	
945.	4.56	34.54			27.38	80.3							
1131.	3.91	34.55			27.46	73.2							
1411.	3.19	34.60			27.57	62.9							

CROMWELL		4, STATION		11, 16- ON LAT, 153-59W LONG, MAY		22, 1964, 1700 G.C.T.							
ORY BULB 24.8		WET BULB 21.7		WIND SPEED 24, DIR. 08		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.89	34.50***			23.02	485.6	0.	24.89	34.50	23.02	485.6	0.000	
11.	24.91	34.50			23.01	486.7	10.	24.91	34.50	23.01	486.6	0.049	
30.	24.91	34.50			23.01	487.4	20.	24.91	34.50	23.01	487.1	0.098	
50.	24.90	34.50			23.02	487.9	30.	24.91	34.50	23.01	487.4	0.147	
74.	23.57	34.59***			23.48	444.5	50.	24.90	34.50	23.02	487.9	0.245	
98.	22.87	34.86			23.89	406.6	75.	23.54	34.60	23.50	442.9	0.363	
125.	21.52	34.96			24.34	364.1	100.	22.80	34.87	23.92	403.7	0.469	
149.	19.43	34.87			24.83	318.0	150.	19.33	34.86	24.85	316.1	0.651	
173.	16.98	34.65			25.27	276.6	200.	14.59	34.43	25.64	241.7	0.791	
198.	14.77	34.44			25.61	244.4	250.	11.30	34.22	26.13	195.0	0.901	
224.	12.65	34.29			25.93	213.8	300.	10.14	34.34	26.44	166.7	0.992	
248.	11.40	34.22			26.12	196.4	400.	7.81	34.31	26.78	134.2	1.144	
272.	10.44	34.22			26.29	180.2	500.	6.76	34.36	26.97	116.9	1.271	
298.	10.18	34.34			26.43	167.5	600.	6.14	34.42	27.10	105.5	1.383	
396.	7.87	34.31			26.77	135.1	700.	5.60	34.46	27.20	96.9	1.486	
494.	6.81	34.36			26.96	117.8	800.	5.12	34.48	27.27	90.2	1.580	
592.	6.19	34.42			27.09	106.2	1000.	4.31	34.53	27.40	78.8	1.751	
788.	5.18	34.48			27.26	90.9	1200.	3.64	34.57	27.50	69.0	1.901	
983.	4.37	34.52			27.39	79.8							
1179.	3.73	34.58			27.50	69.2							
1473.	2.91	34.60			27.60	60.0							

ΔFROM ST DATA
***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 4, STATION 12, 17-32N LAT, 154- 0W LONG, MAY 23, 1964, 0200 G.C.T.												
DRY BULB 24.7		WET BULB 21.7		WIND SPEED 17, DIR. 07		BAR. 15		WEATHER 03		VIS. 8		CLOUD TYPE 5, COVER 8
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.18	34.56			23.28	461.0	0.	24.18	34.56	23.28	461.0	0.000
11.	24.18	34.57			23.28	460.7	10.	24.18	34.57	23.28	460.7	0.046
30. Δ	24.16	34.56			23.28	461.6	20.	24.17	34.57	23.28	461.1	0.093
50. Δ	24.12	34.56			23.29	461.2	30.	24.16	34.56	23.28	461.6	0.139
79.	24.04	34.56			23.32	460.1	50.	24.12	34.56	23.29	461.2	0.232
104.	23.50	34.74			23.61	432.9	75.	24.07	34.55	23.30	461.2	0.348
132.	21.75	35.02			24.32	366.1	100.	23.63	34.70	23.55	439.1	0.462
158.	20.26	34.94			24.67	334.1	150.	20.72	34.98	24.58	342.5	0.659
185.	18.57	34.86			25.04	298.9	200.	17.28	34.71	25.24	280.1	0.816
211.	16.26	34.58			25.38	266.7	250.	13.11	34.30	25.85	222.3	0.942
236.	14.05	34.38			25.72	235.0	300.	10.57	34.17	26.22	186.9	1.046
263.	12.38	34.25			25.95	212.6	400.	7.93	34.24	26.71	141.5	1.211
289.	11.17	34.18			26.13	196.2	500.	7.20	34.39	26.93	120.9	1.344
314.	9.82	34.16			26.35	175.1	600.	6.17	34.43	27.10	105.5	1.458
420.	7.83	34.27			26.75	137.9	700.	5.38	34.44	27.21	95.7	1.560
522.	7.06	34.42			26.97	117.3	800.	4.95	34.47	27.28	89.0	1.653
627.	5.86	34.42			27.13	102.3	1000.	4.31	34.53	27.40	78.4	1.823
833.	4.86	34.48			27.30	87.4	1200.	3.73	34.56	27.48	71.1	1.974
1038.	4.20	34.54			27.42	76.7	1500.	2.97	34.60	27.59	61.1	2.175
1242.	3.62	34.56			27.50	69.9						
1547.	2.86	34.60			27.60	59.8						

TEMPERATURE ERROR TERM AT 400. METERS IS 0.12

CROMWELL 4, STATION 13, 19-10N LAT, 154- 0W LONG, MAY 23, 1964, 1300 G.C.T.												
DRY BULB 22.9		WET BULB 21.1		WIND SPEED 20, DIR. 08		BAR. 16		WEATHER 20		VIS. 7		CLOUD TYPE 6, COVER 8
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.85	34.61			23.41	448.1	0.	23.85	34.61	23.41	448.1	0.000
11.	23.86	34.62			23.42	448.1	10.	23.86	34.62	23.42	448.1	0.045
55.	23.86	34.62			23.42	449.8	20.	23.91	34.63	23.41	449.4	0.090
79.	23.37	34.58			23.53	439.9	30.	23.94	34.63	23.40	450.2	0.136
106.	22.62	34.69			23.83	412.3	50.	23.89	34.62	23.41	450.2	0.226
133.	20.53	34.96			24.61	338.6	75.	23.47	34.58	23.50	442.3	0.339
158.	18.06	34.70			25.05	297.5	100.	22.85	34.65	23.73	421.3	0.448
184.	15.70	34.43			25.40	264.5	150.	18.87	34.81	24.93	308.6	0.631
210.	13.00	34.23			25.82	224.5	200.	13.97	34.29	25.67	238.6	0.769
237.	11.78	34.21			26.04	203.8	250.	11.26	34.22	26.15	193.6	0.878
264.	10.73	34.24			26.25	183.5	300.	9.46	34.20	26.44	166.1	0.969
289.	9.87	34.22			26.39	171.0	400.	7.22	34.16	26.75	136.6	1.122
315.	8.92	34.17			26.50	159.9	500.	5.96	34.22	26.96	116.8	1.250
422.	6.98	34.18			26.80	132.4	600.	5.35	34.34	27.14	101.1	1.360
524.	5.73	34.24			27.01	112.6	700.	5.03	34.43	27.24	91.6	1.457
627.	5.27	34.38			27.17	97.6	800.	4.74	34.47	27.31	86.0	1.547
835.	4.65	34.48			27.32	84.7	1000.	4.13	34.51	27.41	77.4	1.712
1040.	4.00	34.52			27.43	75.8	1200.	3.51	34.56	27.51	68.3	1.860
1244.	3.39	34.57			27.53	66.4	1500.	2.83	34.60	27.60	59.5	2.054
1549.	2.74	34.60			27.61	58.4						

CROMWELL 4, STATION 14, 20-49N LAT, 154- 0W LONG, MAY 23, 1964, 2300 G.C.T.												
DRY BULB 23.3		WET BULB 20.2		WIND SPEED 28, DIR. 08		BAR. 19		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 8
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
3.	23.46	34.63			23.54	435.9	0.	23.46	34.63	23.54	435.8	0.000
8.	23.46	34.63			23.54	436.1	10.	23.46	34.63	23.54	436.1	0.044
30.Δ	23.46	34.63			23.54	436.9	20.	23.46	34.63	23.54	436.5	0.088
50.Δ	23.46	34.63			23.54	437.7	30.	23.46	34.63	23.54	436.9	0.132
98.	23.46	34.73			23.62	432.3	50.	23.46	34.63	23.54	437.7	0.220
122.	22.87	34.96			23.96	400.3	75.	23.56	34.64	23.52	440.4	0.331
146.	21.78	35.03			24.32	366.7	100.	23.43	34.75	23.64	430.0	0.440
171.	20.40	35.02			24.69	332.3	150.	21.59	35.04	24.38	361.0	0.639
187.	19.14	34.84			24.88	314.3	200.	18.24	34.73	25.03	300.9	0.806
219.	16.99	34.60			25.23	281.9	250.	14.83	34.40	25.57	249.7	0.945
245.	15.22	34.44			25.51	255.2	300.	11.42	34.13	26.04	204.4	1.060
271.	13.20	34.26			25.80	227.8	400.	8.13	34.10	26.57	154.3	1.241
297.	11.57	34.14			26.02	206.5	500.	6.72	34.20	26.85	128.3	1.383
395.	8.24	34.10			26.55	156.1	600.	6.24	34.25	26.95	119.3	1.508
496.	6.74	34.20			26.85	128.6	700.	5.88	34.33	27.06	110.2	1.624
694.	5.94	34.32			27.04	111.6	800.	4.88	34.47	27.29	87.7	1.724
795.	4.91	34.47			27.29	88.3	1000.	4.25	34.53	27.41	77.6	1.892
995.	4.26	34.53			27.41	77.8	1200.	3.69	34.56	27.49	70.5	2.042
1192.	3.74	34.55			27.48	71.7						
1489.	2.96	34.58			27.58	62.1						

TEMPERATURE ERROR TERM AT 600. METERS IS 0.18

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 4, STATION 15, 21-59N LAT, 154- 2W LONG, MAY 24, 1964, 0600 G.C.T.													
ORY BULB 23.2		WET BULB 20.2		WIND SPEED 26, DIR. 10		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	23.24	34.78			23.72	418.8	0.	23.24	34.78	23.72	418.8	0.000	
10.	23.27	34.78			23.71	420.0	10.	23.27	34.78	23.71	420.0	0.042	
75.	23.00	34.96			23.92	402.1	20.	23.27	34.80	23.72	419.1	0.085	
101.	22.76	35.03			24.05	391.5	30.	23.25	34.82	23.74	417.6	0.127	
124.	22.39	35.09			24.20	377.9	50.	23.18	34.87	23.81	412.4	0.210	
149.	21.27	35.02			24.47	352.7	75.	23.00	34.96	23.92	402.1	0.313	
175.	20.00	35.00			24.78	323.7	100.	22.77	35.03	24.04	391.9	0.413	
190.	19.61	35.00			24.88	314.5	150.	21.17	35.02	24.88	351.5	0.600	
222.	18.04	34.84			25.16	289.0	200.	19.18	34.96	24.96	307.0	0.766	
248.	16.65	34.72			25.40	266.4	250.	16.56	34.71	25.41	265.1	0.910	
275.	15.50	34.58			25.56	251.9	300.	14.36	34.45	25.71	238.0	1.037	
300.	14.36	34.45			25.71	238.0	400.	9.83	34.12	26.31	180.0	1.248	
400.	9.83	34.12			26.31	180.0	500.	7.38	34.03	26.62	150.3	1.415	
499.	7.40	34.03			26.62	150.6	600.	5.78	34.08	26.88	125.8	1.554	
598.	5.80	34.08			26.87	126.3	700.	4.92	34.22	27.08	106.3	1.672	
794.	4.50	34.35			27.24	92.1	800.	4.68	34.36	27.24	91.5	1.772	
988.	3.91	34.47			27.40	77.9	1000.	3.88	34.48	27.40	77.2	1.942	
1182.	3.41	34.53			27.49	69.1	1200.	3.37	34.54	27.51	68.0	2.089	
1474.	2.82	34.56			27.57	61.8							

CROMWELL 4, STATION 16, 23-30N LAT, 154- 0W LONG, MAY 24, 1964, 1600 G.C.T.														
ORY BULB 21.3		WET BULB 18.8		WIND SPEED 25, DIR. 08		BAR. 20		WEATHER 02		VIS. 7		CLOUD TYPE 5, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	23.19	34.92			23.84	407.3	0.	23.19	34.92	23.84	407.3	0.000		
9.	23.21	34.92			23.83	408.2	10.	23.21	34.92	23.83	408.3	0.041		
30. Δ	23.20	34.92			23.84	408.8	20.	23.21	34.92	23.83	408.6	0.082		
50. Δ	23.20	34.92			23.84	409.5	30.	23.20	34.92	23.84	408.8	0.123		
72.	23.15	34.92			23.85	409.0	50.	23.20	34.92	23.84	409.5	0.206		
95.	22.73	35.00			24.03	392.6	75.	23.10	34.93	23.87	407.3	0.309		
119.	22.38	35.09			24.20	377.5	100.	22.66	35.02	24.06	389.9	0.409		
143.	21.76	35.26			24.50	349.5	150.	21.53	35.27	24.57	343.1	0.594		
166.	21.08	35.26			24.69	332.4	200.	19.61	35.07	24.94	309.3	0.758		
180.	20.88	35.26			24.74	327.7	250.	16.19	34.66	25.46	260.7	0.902		
212.	18.62	34.93			25.08	296.0	300.	13.62	34.38	25.80	228.2	1.025		
237.	16.94	34.74			25.35	271.1	400.	9.97	34.12	26.29	182.0	1.232		
261.	15.59	34.59			25.54	252.7	500.	7.37	34.03	26.63	150.1	1.400		
286.	14.27	34.44			25.72	236.5	600.	5.54	34.07	26.90	123.8	1.538		
381.	10.56	34.16			26.22	189.0	700.	4.67	34.19	27.09	105.3	1.654		
476.	7.95	34.04			26.55	157.6	800.	4.33	34.32	27.23	92.3	1.754		
572.	5.89	34.04			26.83	130.1	1000.	3.91	34.47	27.40	77.7	1.926		
762.	4.45	34.28			27.15	96.4	1200.	3.43	34.55	27.51	68.1	2.073		
954.	4.02	34.45			27.37	80.4								
1145.	3.54	34.52			27.47	71.1								
1433.	2.88	34.56			27.57	62.3								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

CROMWELL 4, STATION 17, 23-30N LAT, 151- 0W LONG, MAY 25, 1964, 1100 G.C.T.														
ORY BULB 21.3		WET BULB 18.8		WIND SPEED 16, DIR. 07		BAR. 22		WEATHER 03		VIS. 6		CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
1.	22.72	35.12			24.13	380.1	0.	22.72	35.12	24.13	380.0	0.000		
9.	22.75	35.12			24.12	381.2	10.	22.76	35.12	24.11	381.7	0.038		
30. Δ	22.75	35.12			24.12	382.0	20.	22.82	35.11	24.09	384.5	0.077		
47.	21.96	35.26			24.45	351.2	30.	22.75	35.12	24.12	382.0	0.116		
72.	21.51	35.34			24.63	334.4	50.	21.88	35.28	24.48	348.0	0.189		
96.	21.24	35.32			24.69	329.7	75.	21.47	35.34	24.64	333.5	0.275		
120.	20.96	35.29			24.74	325.4	100.	21.23	35.32	24.69	329.5	0.358		
143.	19.66	35.10			24.95	306.9	150.	19.38	35.06	24.99	302.7	0.518		
168.	18.72	34.98			25.10	293.3	200.	17.06	34.75	25.33	272.1	0.663		
183.	18.08	34.88			25.18	285.7	250.	14.21	34.42	25.71	235.9	0.791		
214.	16.15	34.64			25.46	260.0	300.	12.04	34.25	26.02	207.0	0.902		
238.	14.79	34.49			25.64	242.3	400.	8.43	34.03	26.47	164.4	1.090		
266.	13.50	34.34			25.80	227.7	500.	6.69	34.05	26.73	139.3	1.243		
288.	12.58	34.29			25.95	214.1	600.	5.35	34.13	26.96	117.0	1.372		
384.	8.81	34.04			26.42	169.1	700.	4.72	34.25	27.13	101.4	1.483		
482.	7.00	34.04			26.68	143.9	800.	4.42	34.36	27.26	90.2	1.580		
577.	5.55	34.10			26.92	121.3	1000.	3.87	34.49	27.41	76.4	1.748		
772.	4.52	34.34			27.23	92.9	1200.	3.39	34.56	27.52	67.0	1.893		
966.	3.96	34.47			27.39	78.3								
1158.	3.48	34.54			27.49	69.0								
1451.	2.91	34.58			27.58	61.3								

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 4, STATION 18, 22- IN LAT, 150-58W LONG, MAY 25, 1964, 2000 G.C.T.												
DRY BULB 23.4		WET BULB 20.1		WIND SPEED 16, DIR. 10		BAR. 21		WEATHER 02		VIS. 8 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.07	34.92			23.87	404.1	0.	23.07	34.92	23.87	404.0	0.000
11.	23.05	34.92			23.88	403.9	10.	23.05	34.92	23.88	403.9	0.041
76.	23.00	34.94			23.91	403.6	20.	23.05	34.91	23.87	404.8	0.081
102.	22.86	35.02			24.01	395.0	30.	23.05	34.91	23.87	405.3	0.122
128.	22.56	35.18			24.22	376.2	50.	23.04	34.91	23.88	405.5	0.204
151.	21.86	35.17			24.41	358.9	75.	23.00	34.94	23.91	403.7	0.306
176.	20.35	35.15			24.80	321.8	100.	22.87	35.01	24.00	395.9	0.407
202.	19.23	35.03			25.00	303.3	150.	21.90	35.17	24.40	359.8	0.597
227.	17.91	34.84			25.19	286.1	200.	19.31	35.04	24.99	304.4	0.764
252.	16.13	34.62			25.44	262.1	250.	16.28	34.64	25.42	264.2	0.908
278.	14.07	34.38			25.71	236.6	300.	12.43	34.22	25.92	216.3	1.029
304.	12.15	34.20			25.96	212.9	400.	8.96	34.08	26.42	169.0	1.223
402.	8.93	34.08			26.43	168.4	500.	7.16	34.16	26.75	137.8	1.378
503.	7.12	34.16			26.76	137.0	600.	5.63	34.22	27.00	113.8	1.505
601.	5.62	34.22			27.01	113.6	700.	5.00	34.33	27.16	99.1	1.613
799.	4.79	34.43			27.27	89.8	800.	4.79	34.43	27.27	89.7	1.708
997.	4.22	34.50			27.39	79.5	1000.	4.21	34.50	27.39	79.4	1.879
1196.	3.62	34.54			27.48	71.0	1200.	3.64	34.54	27.48	70.9	2.032
1494.	2.93	34.58			27.58	61.8						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11

CROMWELL 4, STATION 19, 20-28N LAT, 151-4W LONG, MAY 26, 1964, 0500 G.C.T.													
DRY BULB 23.1		WET BULB 20.1		WIND SPEED 16, DIR. 08		BAR. 19		WEATHER 03		VIS. 7		CLOUD TYPE 5, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH	
1.	22.88	35.04			24.02	390.2	0.	22.88	35.04	24.02	390.2	0.000	
10.	22.88	35.05			24.03	389.8	10.	22.88	35.05	24.03	389.8	0.039	
47.	22.44	35.09			24.18	376.4	20.	22.77	35.06	24.07	386.4	0.078	
73.	22.40	35.10			24.20	375.6	30.	22.66	35.07	24.11	382.8	0.117	
97.	22.22	35.09			24.24	372.3	50.	22.43	35.09	24.19	376.2	0.194	
118.	22.05	35.16			24.35	363.5	75.	22.39	35.10	24.20	375.5	0.288	
143.	21.38	35.20			24.56	343.7	100.	22.21	35.10	24.25	371.5	0.382	
166.	20.18	35.13			24.83	318.6	150.	21.02	35.18	24.65	335.7	0.561	
180.	19.66	35.08			24.93	309.6	200.	18.91	34.99	25.06	298.0	0.720	
211.	18.37	34.92			25.14	290.7	250.	15.22	34.48	25.54	252.4	0.859	
236.	16.48	34.64			25.38	268.0	300.	11.57	34.15	26.03	205.7	0.974	
261.	14.23	34.37			25.67	240.1	400.	8.79	34.16	26.51	160.6	1.159	
285.	12.36	34.20			25.92	216.4	500.	7.18	34.22	26.80	133.7	1.308	
380.	9.16	34.14			26.44	167.2	600.	5.61	34.22	27.01	113.1	1.432	
475.	7.68	34.22			26.73	140.3	700.	5.03	34.33	27.16	99.1	1.540	
571.	5.87	34.20			26.96	118.0	800.	4.78	34.44	27.28	89.1	1.635	
762.	4.93	34.41			27.24	92.6	1000.	4.06	34.52	27.42	76.3	1.802	
952.	4.24	34.51			27.39	78.6	1200.	3.45	34.56	27.51	67.7	1.948	
1118.	3.66	34.53			27.47	71.6							
1354.	3.08	34.57			27.56	63.4							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.11

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

CROMWELL 4, STATION 20, 18-56N LAT, 151-4W LONG, MAY 26, 1964, 1500 G.C.T.												
DRY BULB 23.3		WET BULB 20.3		WIND SPEED 19, DIR. 07		BAR. 17		WEATHER 01		VIS. 7		CLOUD TYPE 4, COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.73	34.57			23.42	447.6	0.	23.73	34.57	23.42	447.6	0.000
10.	23.74	34.57			23.41	448.3	10.	23.74	34.57	23.41	448.3	0.045
30.Δ	23.74	34.57			23.41	449.0	20.	23.78	34.55	23.39	451.1	0.090
49.	23.22	34.86			23.78	414.4	30.	23.74	34.57	23.41	449.0	0.136
72.	23.07	34.92			23.87	406.8	50.	23.21	34.87	23.79	413.8	0.223
96.	22.38	34.94			24.09	387.4	75.	23.01	34.92	23.89	404.9	0.326
121.	21.31	34.97			24.41	357.7	100.	22.21	34.94	24.13	383.1	0.425
144.	20.57	35.15			24.74	326.3	150.	20.29	35.14	24.81	320.1	0.602
169.	19.12	34.99			25.00	302.4	200.	16.14	34.53	25.37	267.4	0.750
192.	17.12	34.64			25.23	281.1	250.	11.98	34.20	25.99	208.6	0.870
217.	14.14	34.34			25.67	239.2	300.	9.78	34.14	26.34	175.6	0.967
242.	12.46	34.22			25.91	215.8	400.	8.50	34.30	26.67	145.3	1.129
265.	11.16	34.17			26.12	196.2	500.	7.68	34.50	26.95	120.1	1.263
289.	10.08	34.14			26.29	180.4	600.	6.55	34.44	27.06	109.6	1.379
386.	8.61	34.26			26.62	149.8	700.	5.94	34.47	27.16	100.7	1.485
481.	7.91	34.50			26.92	123.1	800.	5.48	34.50	27.24	93.5	1.583
577.	6.73	34.44			27.04	112.0	1000.	4.54	34.51	27.36	83.1	1.762
768.	5.66	34.50			27.22	95.5	1200.	3.86	34.54	27.45	74.2	1.921
959.	4.69	34.50			27.34	85.1						
1151.	4.09	34.54			27.43	76.4						
1439.	3.24	34.58			27.55	65.2						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 4, STATION 21, 17-30N LAT, 151- 0W LONG, MAY 27, 1964, OCCO G.C.T.													
URY BULB 24.0		WET BULB 21.7		WIND SPEED 18, DIR. 06		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.19	34.56			23.27	461.3	0.	24.19	34.56	23.27	461.3	0.000	
10.	24.33	34.55			23.22	466.4	10.	24.33	34.55	23.22	466.4	0.047	
30. ^Δ	24.28	34.56			23.25	465.0	20.	24.35	34.55	23.22	467.2	0.094	
50. ^Δ	23.92	34.56			23.35	455.6	30.	24.28	34.56	23.25	465.0	0.141	
75.	23.76	34.58			23.42	450.6	50.	23.92	34.56	23.35	455.6	0.233	
100.	22.92	34.74			23.78	416.7	75.	23.76	34.58	23.42	450.6	0.348	
124.	21.50	34.85			24.26	371.5	100.	22.92	34.74	23.78	416.7	0.457	
150.	20.18	34.98			24.72	328.9	150.	20.18	34.98	24.72	328.9	0.645	
174.	18.21	34.77			25.06	296.5	200.	15.25	34.46	25.52	253.4	0.791	
190.	16.39	34.58			25.35	268.9	250.	11.71	34.20	26.04	203.6	0.907	
222.	13.14	34.25			25.80	226.1	300.	10.25	34.30	26.38	171.7	1.001	
249.	11.75	34.20			26.03	204.2	400.	8.57	34.40	26.74	139.1	1.158	
276.	10.85	34.21			26.21	188.1	500.	7.37	34.44	26.95	119.9	1.289	
300.	10.25	34.30			26.38	171.7	600.	6.51	34.44	27.07	109.2	1.404	
400.	8.57	34.40			26.74	139.1	700.	5.82	34.46	27.17	100.1	1.510	
501.	7.36	34.44			26.95	119.8	800.	5.27	34.48	27.25	92.3	1.608	
601.	6.50	34.44			27.07	109.1	1000.	4.45	34.54	27.39	79.5	1.781	
802.	5.26	34.48			27.25	92.1	1200.	3.85	34.57	27.48	71.7	1.934	
1002.	4.44	34.54			27.40	79.4	1500.	3.06	34.59	27.57	62.7	2.139	
1201.	3.85	34.57			27.48	71.6							
1501.	3.06	34.59			27.57	62.7							

CROMWELL 4, STATION 22, 15-59N LAT, 150-59W LONG, MAY 27, 1964, O9CO G.C.T.														
ORY BULB 24.5		WET BULB 21.9		WIND SPEED 16, DIR. 08		BAR. 17		WEATHER 00		VIS. 7		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.37	34.55			23.21	467.1	0.	24.37	34.55	23.21	467.1	0.000		
10.	24.38	34.54			23.20	468.5	10.	24.38	34.54	23.20	468.5	0.047		
48.	24.19	34.60			23.30	460.3	20.	24.39	34.55	23.20	468.6	0.094		
72.	23.57	34.62			23.50	442.3	30.	24.36	34.56	23.23	467.1	0.141		
99.	23.26	34.68			23.64	430.4	50.	24.14	34.60	23.32	458.8	0.235		
122.	22.12	34.90			24.13	384.3	75.	23.55	34.62	23.51	441.9	0.348		
147.	19.92	34.98			24.79	322.2	100.	23.23	34.69	23.65	428.8	0.458		
172.	18.81	34.88			25.00	302.9	150.	19.77	34.97	24.82	318.8	0.646		
187.	17.98	34.78			25.13	290.7	200.	16.00	34.55	25.42	262.7	0.793		
219.	12.98	34.27			25.85	221.4	250.	11.26	34.41	26.29	179.9	0.904		
243.	11.52	34.38			26.22	186.7	300.	10.33	34.59	26.59	151.9	0.988		
270.	10.78	34.50			26.45	165.4	400.	9.00	34.54	26.78	135.6	1.133		
292.	10.45	34.58			26.57	154.4	500.	7.87	34.54	26.95	120.2	1.262		
393.	9.09*	34.54			26.76	136.9	600.	6.92	34.50	27.06	110.6	1.379		
490.	7.98	34.54			26.94	121.4	700.	6.18	34.50	27.15	101.8	1.486		
589.	7.01	34.50			27.04	111.7	800.	5.59	34.51	27.24	94.2	1.585		
784.	5.68	34.51			27.23	95.2	1000.	4.63	34.52	27.36	83.1	1.765		
980.	4.72	34.52			27.35	84.2	1200.	3.87	34.54	27.46	73.8	1.924		
1174.	3.93	34.54			27.45	74.6								
1468.	3.22	34.59			27.56	64.4								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.32

CROMWELL 4, STATION 23, 14-30N LAT, 151- 1W LONG, MAY 27, 1964, 1800 G.C.T.														
ORY BULB 25.4		WET BULB 22.3		WIND SPEED 22, DIR. 05		BAR. 19		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.74	34.70			22.91	496.1	0.	25.74	34.70	22.91	496.1	0.000		
10.	25.73	34.70			22.91	496.2	10.	25.73	34.70	22.91	496.2	0.050		
30.	25.73	34.70			22.91	497.0	20.	25.73	34.70	22.91	496.5	0.100		
50.	25.73	34.70			22.91	497.8	30.	25.73	34.70	22.91	497.0	0.150		
75.	25.50	34.73			23.01	489.8	50.	25.73	34.70	22.91	497.8	0.250		
100.	22.28	35.04			24.19	377.7	75.	25.50	34.73	23.01	489.8	0.375		
125.	20.39	35.00			24.68	331.9	100.	22.28	35.04	24.19	377.7	0.484		
149.	18.86	34.96			25.05	297.5	150.	18.80	34.95	25.05	296.6	0.654		
176.	16.32	34.59			25.38	266.2	200.	12.97	34.27	25.85	220.8	0.784		
190.	14.05	34.32			25.67	238.1	250.	10.86	34.48	26.41	168.0	0.882		
222.	11.57	34.34			26.18	190.1	300.	10.20	34.56	26.59	151.9	0.963		
246.	10.92	34.46			26.39	170.3	400.	8.39	34.50	26.84	129.1	1.105		
274.	10.60	34.56			26.52	158.0	500.	7.25	34.49	27.00	114.5	1.228		
297.	10.26	34.56			26.58	152.7	600.	6.42	34.50	27.13	103.5	1.338		
396.	8.45	34.50			26.83	129.8	700.	5.73	34.51	27.22	95.2	1.438		
494.	7.31	34.49			26.99	115.2	800.	5.18	34.51	27.29	88.7	1.531		
593.	6.47	34.50*			27.12	104.1	1000.	4.35	34.53	27.40	78.6	1.701		
789.	5.23	34.51*			27.28	89.4	1200.	3.68	34.56	27.49	70.3	1.852		
986.	4.40	34.53*			27.39	79.5								
1183.	3.74	34.56*			27.48	70.9								
1480.	3.00	34.60*			27.59	61.1								

ΔFROM ST DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 4, STATION 24, 12-58N LAT, 150-59W LONG, MAY 28, 1964, 0300 G.C.T.												
DRY BULB 25.4		WET BULB 22.9		WIND SPEED 18, DIR. 06		BAR. 13	WEATHER 02		VIS. 7	CLOUD TYPE 6, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	26.44	34.92			22.86	501.1	0.	26.44	34.92	22.86	501.1	0.000
10.	26.46	34.93			22.86	501.4	10.	26.46	34.93	22.86	501.4	0.050
30. Δ	26.46	34.93			22.86	502.2	20.	26.46	34.93	22.86	501.8	0.101
50. Δ	26.45	34.92			22.85	503.5	30.	26.46	34.93	22.86	502.2	0.152
74.	26.02	34.90			22.97	493.0	50.	26.45	34.92	22.85	503.5	0.253
98.	23.59	34.69			23.55	438.8	75.	25.95	34.89	22.99	491.9	0.378
122.	19.55	34.90			24.82	317.9	100.	23.26	34.71	23.66	428.3	0.494
147.	16.65	34.58			25.29	273.4	150.	16.19	34.53	25.36	267.0	0.669
172.	13.12	34.28			25.83	222.2	200.	11.50	34.45	26.27	180.3	0.782
186.	12.04	34.36			26.10	196.3	250.	10.43	34.55	26.55	155.3	0.867
219.	11.12	34.54			26.42	167.3	300.	9.80	34.58	26.68	143.3	0.942
245.	10.54	34.55			26.53	157.1	400.	8.83	34.60	26.85	128.6	1.079
270.	10.04	34.55			26.61	149.2	500.	7.82	34.56	26.97	117.8	1.203
295.	9.84	34.58			26.67	144.1	600.	6.82	34.52	27.08	107.9	1.317
393.	8.90	34.60			26.84	129.4	700.	6.06	34.50	27.17	100.0	1.422
493.	7.89	34.56			26.97	118.6	800.	5.45	34.50	27.25	93.0	1.520
591.	6.90	34.52			27.08	108.7	1000.	4.52	34.54	27.39	80.2	1.695
788.	5.52	34.50			27.24	93.9	1200.	3.79	34.57	27.49	71.0	1.849
985.	4.5R	34.54			27.38	81.0						
1181.	3.87	34.56			27.47	72.4						
1478.	3.04	34.60			27.58	61.6						

CROMWELL 4, STATION 25, 11-23N LAT, 151- 0W LONG, MAY 28, 1964, 1200 G.C.T.												
DRY BULB 25.7	WET BULB 23.8	WIND SPEED 20, DIR. 06	BAR. 14	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 7						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	26.34	34.58			22.63	522.6	0.	26.34	34.58	22.63	522.6	0.000
10.	26.29	34.57			22.64	522.1	10.	26.29	34.57	22.64	522.1	0.053
30. Δ	26.29	34.57			22.64	523.0	20.	26.28	34.57	22.64	522.4	0.105
50. Δ	26.29	34.57			22.64	523.8	30.	26.29	34.57	22.64	523.0	0.158
75. Δ	26.32	34.57			22.63	525.7	50.	26.29	34.57	22.64	523.8	0.263
88.	24.55	34.63			23.22	469.9	75.	26.32	34.57	22.63	525.7	0.396
109.	20.15	34.80			24.59	339.7	100.	22.00	34.73	24.04	392.3	0.511
132.	18.22	34.78			25.07	294.6	150.	16.08	34.54	25.39	263.9	0.678
155.	15.38	34.46			25.49	254.6	200.	11.77	34.51	26.27	181.0	0.789
168.	13.37	34.34			25.83	222.6	250.	10.70	34.66	26.58	151.9	0.872
197.	11.87	34.48			26.23	184.6	300.	9.71	34.61	26.72	139.6	0.946
221.	11.23	34.66			26.49	160.5	400.	8.55	34.60	26.89	124.3	1.079
244.	10.84	34.67			26.57	153.4	500.	7.53	34.55	27.01	114.1	1.199
266.	10.33	34.63			26.63	148.1	600.	6.57	34.52	27.12	104.2	1.310
350.	9.03	34.62			26.84	129.2	700.	5.83	34.51	27.21	96.2	1.411
435.	8.26	34.58			26.93	121.7	800.	5.25	34.52	27.29	88.8	1.505
523.	7.27	34.54			27.04	111.4	1000.	4.29	34.55	27.42	76.6	1.672
699.	5.84	34.51			27.21	96.3	1200.	3.60	34.58	27.51	68.0	1.818
885.	4.83	34.54			27.35	83.1						
1085.	4.03	34.56			27.46	73.4						
1325.	3.30	34.59			27.55	64.4						

TEMPERATURE ERROR TEMP AT 100. METERS IS 0.18

CROMWELL 4, STATION 26, 10- 4N LAT, 148- 8W LONG, MAY 29, 1964, 0800 G.C.T.												
DRY BULB 25.8	WET BULB 24.1	WIND SPEED 14, DIR. 12	BAR. 14	WEATHER 02	VIS. 8	CLOUD TYPE 5, COVER 7						
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.
0.	26.87	34.24			22.21	563.1	0.	26.87	34.24	22.21	563.1	0.000
10.	26.84	34.24			22.22	562.5	10.	26.84	34.24	22.22	562.5	0.057
30. Δ	26.68	34.31			22.32	553.5	20.	26.78	34.27	22.26	559.1	0.113
50. Δ	26.30	34.38			22.49	537.8	30.	26.68	34.31	22.32	553.5	0.169
52.	26.16	34.39			22.55	532.9	50.	26.30	34.38	22.49	537.8	0.279
62.	19.94	34.47			24.39	356.6	75.	15.98	34.38	25.29	271.2	0.381
73.	16.39	34.38			25.20	279.8	100.	13.11	34.59	26.07	197.2	0.440
82.	14.87	34.39			25.55	246.8	150.	11.12	34.75	26.58	149.9	0.528
102.	12.99	34.62			26.12	192.9	200.	10.47	34.72	26.67	142.6	0.601
130.	11.66	34.74			26.47	160.1	250.	10.02	34.71	26.74	136.8	0.672
155.	11.02	34.75			26.60	148.6	300.	9.70	34.68	26.78	134.3	0.740
180.	10.65	34.71			26.83	145.7	400.	9.10	34.65	26.85	128.8	0.873
208.	10.42	34.72			26.68	141.6	500.	8.18	34.59	26.94	121.0	0.999
263.	9.91	34.70			26.75	135.8	600.	7.16	34.56	27.07	109.5	1.115
308.	9.66	34.68			26.78	134.1	700.	6.29	34.54	27.17	100.3	1.221
411.	9.02	34.65			26.86	128.0	800.	5.58	34.52	27.25	93.2	1.319
513.	8.04	34.58			26.96	119.7	1000.	4.57	34.55	27.39	80.6	1.495
613.	7.03	34.56			27.09	107.9	1200.	3.83	34.58	27.49	70.9	1.648
816.	5.48	34.52			27.26	92.2	1500.	3.00	34.61	27.59	60.6	1.848
1016.	4.51	34.55			27.40	79.7						
1217.	3.78	34.58			27.50	70.2						
1518.	2.96	34.61			27.60	60.1						

ΔFROM BT DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 4, STATION 27, 11-38N LAT, 14R- 8W LONG, MAY 29, 1964, 1700 G.C.T.													
DRY BULB 25.6		WET BULB 23.8		WIND SPEED 21, DIR. 07		BAR. 14		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 8	
DEPTH	TEMP.	SAL.	LXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.19	34.66			22.74	512.3	0.	26.19	34.66	22.74	512.3	0.000	
10.	26.20	34.66			22.74	513.0	10.	26.20	34.66	22.74	513.0	0.052	
30. Δ	26.20	34.66			22.74	513.8	20.	26.20	34.66	22.74	513.5	0.103	
50. Δ	26.20	34.66			22.74	514.6	30.	26.20	34.66	22.74	513.8	0.155	
76.	23.22	34.78			23.72	421.2	50.	26.20	34.66	22.74	514.6	0.259	
101.	21.78	35.02			24.31	365.7	75.	23.35	34.77	23.68	425.3	0.377	
125.	19.34	35.02			24.97	304.1	100.	21.83	35.01	24.29	367.8	0.477	
151.	14.80	34.41			25.58	245.9	150.	14.98	34.43	25.56	247.7	0.632	
177.	11.88	34.29			26.08	198.3	200.	11.37	34.52	26.36	172.6	0.738	
193.	11.43	34.45			26.29	178.8	250.	10.96	34.70	26.57	153.2	0.820	
225.	11.30	34.71			26.51	158.1	300.	10.22	34.66	26.67	144.5	0.895	
252.	10.93	34.70			26.57	153.0	400.	8.99	34.62	26.84	129.7	1.033	
279.	10.61	34.72			26.65	146.5	500.	7.76	34.56	26.99	116.5	1.158	
304.	10.14	34.65			26.67	144.2	600.	6.72	34.52	27.10	106.2	1.270	
405.	8.94	34.62			26.85	128.8	700.	5.95	34.52	27.20	97.0	1.373	
507.	7.68	34.56			27.00	115.7	800.	5.35	34.54	27.29	89.0	1.467	
607.	6.66	34.52			27.11	105.5	1000.	4.43	34.56	27.41	77.8	1.636	
808.	5.31	34.54			27.30	88.4	1200.	3.81	34.58	27.49	70.4	1.786	
1010.	4.39	34.56			27.42	77.4	1500.	3.09	34.62	27.59	61.0	1.986	
1210.	3.78	34.58			27.50	70.1							
1512.	3.07	34.62			27.60	60.7							

CROMWELL 4, STATION 28, 13- ON LAT, 14R- 6W LONG, MAY 30, 1964, 0200 G.C.T.														
DRY BULB 26.5		WET BULB 23.7		WIND SPEED 15, DIR. 07		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 7, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	25.25	34.69			23.05	482.4	0.	25.25	34.69	23.05	482.4	0.000		
10.	25.24	34.70			23.06	481.8	10.	25.24	34.70	23.06	481.8	0.049		
30.Δ	25.24	34.70			23.06	482.6	20.	25.24	34.70	23.06	482.1	0.097		
50.Δ	25.22	34.70			23.07	482.8	30.	25.24	34.70	23.06	482.6	0.146		
76.	22.50	34.82			23.96	398.6	50.	25.22	34.70	23.07	482.8	0.243		
102.	20.68	35.09			24.67	332.0	75.	22.62	34.81	23.92	402.4	0.354		
127.	18.40	34.88			25.10	291.5	100.	20.81	35.08	24.62	336.4	0.447		
153.	14.80	34.41			25.58	245.9	150.	15.23	34.46	25.52	251.3	0.596		
179.	11.78	34.36			26.15	191.4	200.	11.45	34.64	26.43	165.4	0.701		
194.	11.49	34.59			26.39	169.6	250.	10.83	34.71	26.60	150.6	0.780		
228.	11.26	34.72			26.53	156.8	300.	10.21	34.67	26.68	143.7	0.854		
255.	10.73	34.70			26.61	149.5	400.	9.14	34.61	26.81	132.8	0.994		
281.	10.43	34.68			26.65	146.4	500.	8.00	34.56	26.95	120.1	1.122		
308.	10.12	34.67			26.69	142.5	600.	6.94	34.54	27.09	107.7	1.237		
409.	9.04	34.60			26.82	132.0	700.	6.12	34.54	27.19	98.1	1.341		
511.	7.87	34.56			26.97	118.6	800.	5.48	34.54	27.27	90.6	1.436		
613.	6.81	34.54			27.10	106.2	1000.	4.53	34.54	27.38	80.6	1.609		
815.	5.40	34.54			27.29	89.7	1200.	3.88	34.58	27.48	71.5	1.763		
1017.	4.47	34.54			27.39	79.9	1500.	3.07	34.59	27.57	62.9	1.968		
1218.	3.83	34.58			27.49	70.8								
1520.	3.03	34.59			27.58	62.5								

CROMWELL 4, STATION 29, 14-30N LAT, 147-58W LONG, MAY 30, 1964, 1100 G.C.T.														
DRY BULB 25.0		WET BULB 22.9		WIND SPEED 16, DIR. 06		BAR. 15		WEATHER 50		VIS. 7		CLOUD TYPE 4, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.63	34.74			22.97	490.0	0.	25.63	34.74	22.97	490.0	0.000		
10.	25.64	34.74			22.97	490.6	10.	25.64	34.74	22.97	490.6	0.049		
30.Δ	25.64	34.74			22.97	491.4	20.	25.64	34.74	22.97	491.1	0.099		
48.	25.65	34.74			22.97	492.5	30.	25.64	34.74	22.97	491.4	0.148		
75.	24.70	34.57			23.13	478.1	50.	25.62	34.72	22.96	493.1	0.247		
99.	22.61	34.83			23.94	401.7	75.	24.70	34.57	23.13	478.1	0.370		
123.	19.99	34.71			24.56	342.6	100.	22.50	34.83	23.97	399.0	0.480		
149.	17.64	34.67			25.13	289.5	150.	17.48	34.65	25.15	286.9	0.653		
173.	13.93	34.32			25.70	235.3	200.	12.10	34.32	26.06	201.0	0.776		
190.	12.66	34.30			25.94	212.4	250.	10.72	34.45	26.42	167.6	0.869		
222.	11.25	34.38			26.27	181.4	300.	9.97	34.52	26.60	150.8	0.949		
247.	10.75	34.44			26.40	168.8	400.	8.63	34.49	26.80	133.4	1.093		
274.	10.51	34.53			26.52	158.7	500.	7.60	34.48	26.94	120.4	1.221		
298.	10.00	34.52			26.60	151.3	600.	6.44	34.44	27.07	108.3	1.336		
397.	8.66	34.49			26.79	133.8	700.	5.69	34.45	27.18	98.7	1.441		
497.	7.64	34.48			26.94	120.8	800.	5.15	34.48	27.27	90.7	1.537		
596.	6.48	34.44			27.07	108.8	1000.	4.28	34.52	27.40	78.8	1.708		
795.	5.18	34.48			27.26	91.0	1200.	3.63	34.56	27.50	69.7	1.858		
995.	4.31	34.52			27.39	79.1								
1191.	3.69	34.56			27.49	70.3								
1488.	2.97	34.61			27.60	60.1								

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 4, STATION 30, 16-1N LAT, 147-56W LONG, MAY 30, 1964, 2000 G.C.T.					30, 1964, 2000 G.C.T.					30, 1964, 2000 G.C.T.				
DRY BULB 27.3 WET BULB 23.0 WIND SPEED 14, DIR. 06 BAR. 1c WEATHER 01 VIS. 7 CLOUD TYPE 6, COVER 7														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	24.74	34.61			23.15	473.4	0.	24.74	34.61	23.15	473.4	0.000		
9.	24.73	34.62			23.16	472.7	10.	24.70	34.62	23.17	471.7	0.048		
30. Δ	23.86	34.71			23.48	442.3	20.	24.33	34.66	23.31	458.8	0.094		
48.	23.32	34.79			23.70	422.2	30.	23.86	34.71	23.48	442.3	0.140		
73.	22.45	34.95			24.07	387.7	50.	23.25	34.80	23.73	419.5	0.227		
97.	21.64	35.12			24.42	356.0	75.	22.38	34.97	24.11	384.7	0.328		
120.	21.33	35.20			24.58	341.6	100.	21.66	35.14	24.44	354.1	0.421		
145.	19.73	35.06			24.90	311.6	150.	19.33	35.00	24.95	306.2	0.587		
169.	17.57	34.73			25.20	283.0	200.	13.76	34.35	25.75	230.6	0.723		
185.	15.56	34.50			25.48	256.4	250.	9.85	34.19	26.36	172.3	0.824		
216.	12.04	34.24			26.01	205.8	300.	9.53	34.35	26.55	155.9	0.907		
239.	10.23	34.18			26.29	178.9	400.	8.70	34.51	26.80	133.3	1.053		
267.	9.62	34.23			26.43	165.7	500.	7.36	34.44	26.95	119.8	1.181		
290.	9.77	34.32			26.51	158.8	600.	6.44	34.46	27.09	106.7	1.295		
386.	8.88	34.51			26.77	135.6	700.	5.77	34.47	27.19	98.2	1.399		
485.	7.53	34.44			26.92	122.0	800.	5.23	34.49	27.26	91.2	1.494		
582.	6.58	34.46			27.07	108.5	1000.	4.27	34.53	27.41	77.7	1.665		
775.	5.37	34.48			27.24	93.2	1200.	3.57	34.57	27.51	68.5	1.813		
967.	4.40	34.53			27.39	79.3								
1162.	3.72	34.55			27.48	71.2								
1456.	3.00	34.61			27.60	60.2								

CROMWELL 4, STATION 31, 17-34N LAT, 148-4W LONG, MAY 31, 1964, 0500 G.C.T.					31, 1964, 0500 G.C.T.					31, 1964, 0500 G.C.T.				
DRY BULB 24.0 WET BULB 21.8 WIND SPEED 19, DIR. 08 BAR. 1c WEATHER 01 VIS. 8 CLOUD TYPE 3, COVER 3														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	24.14	34.67			23.37	452.0	0.	24.14	34.67	23.37	451.9	0.000		
11.	24.09	34.66			23.38	451.7	10.	24.10	34.66	23.38	451.9	0.046		
48.	23.15	34.78			23.74	418.2	20.	23.90	34.67	23.44	446.1	0.091		
73.	22.72	35.00			24.03	391.5	30.	23.66	34.69	23.53	438.0	0.135		
97.	22.22	35.07			24.23	373.8	50.	23.11	34.80	23.77	416.0	0.221		
120.	21.85	35.14			24.39	359.7	75.	22.68	35.01	24.05	389.8	0.323		
144.	20.24	35.13			24.82	319.3	100.	22.20	35.08	24.24	372.6	0.419		
168.	18.85	34.94			25.03	299.4	150.	19.93	35.10	24.87	314.0	0.592		
182.	17.52	34.74			25.21	282.7	200.	15.40	34.46	25.49	256.4	0.736		
214.	13.78	34.28			25.70	236.3	250.	11.16	34.19	26.14	194.1	0.849		
239.	11.75	34.18			26.02	205.5	300.	9.99	34.62	26.67	144.1	0.934		
263.	10.65	34.26			26.28	180.7	400.	8.66	34.47	26.78	135.2	1.075		
289.	10.17	34.58***			26.61	149.5	500.	7.54	34.46	26.94	121.0	1.205		
384.	8.86	34.48			26.75	137.5	600.	6.59	34.46	27.07	108.7	1.321		
480.	7.76	34.46			26.91	123.8	700.	5.90	34.47	27.17	99.9	1.426		
576.	6.78	34.46			27.04	111.2	800.	5.36	34.48	27.25	93.0	1.524		
767.	5.53	34.48*			27.22	95.2	1000.	4.47	34.52	27.37	81.4	1.700		
959.	4.63	34.51*			27.35	83.6	1200.	3.75	34.55	27.48	71.8	1.855		
1149.	3.93	34.54			27.45	74.4								
1436.	3.11	34.60			27.56	62.1								

CROMWELL 4, STATION 32, 14-59N LAT, 147-57W LONG, MAY 31, 1964, 1400 G.C.T.					31, 1964, 1400 G.C.T.					31, 1964, 1400 G.C.T.				
DRY BULB 23.6 WET BULB 20.9 WIND SPEED 15, DIR. 08 BAR. 17 WEATHER 00 VIS. 8 CLOUD TYPE , COVER														
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.85	34.59			23.40	449.5	0.	23.85	34.59	23.40	449.5	0.000		
9.	23.86	34.56			23.37	452.3	10.	23.87	34.56	23.37	452.8	0.045		
43.	23.64	34.54			23.42	448.9	20.	23.91	34.54	23.34	456.0	0.091		
65.	22.51	34.62			23.81	412.9	30.	23.86	34.53	23.35	455.3	0.137		
87.	21.81	34.74			24.09	386.2	50.	23.30	34.56	23.53	438.3	0.227		
108.	21.10	34.92			24.43	355.3	75.	22.17	34.67	23.94	400.6	0.333		
130.	19.57	34.93			24.85	315.2	100.	21.42	34.86	24.29	367.9	0.430		
151.	18.54	34.82			25.02	300.0	150.	18.60	34.83	25.01	300.6	0.598		
163.	17.39	34.66			25.18	284.9	200.	14.60	34.38	25.60	245.3	0.736		
192.	15.30	34.46			25.51	253.9	250.	11.41	34.23	26.12	195.7	0.847		
214.	13.47	34.27			25.75	230.9	300.	9.18	34.11	26.41	168.2	0.939		
235.	12.45	34.29			25.97	210.3	400.	7.47	34.19	26.73	138.4	1.093		
257.	10.92	34.20			26.19	189.6	500.	6.52	34.34	26.98	115.4	1.221		
340.	8.35	34.10			26.54	156.8	600.	5.85	34.40	27.12	103.1	1.332		
421.	7.27	34.23			26.80	132.7	700.	5.31	34.44	27.21	94.9	1.432		
501.	6.51	34.34			26.99	115.2	800.	4.82	34.47	27.30	87.1	1.524		
662.	5.52	34.42			27.18	98.3	1000.	4.04	34.52	27.43	75.6	1.688		
825.	4.71	34.48			27.32	85.4	1200.	3.50	34.55	27.50	68.5	1.834		
990.	4.09	34.52			27.42	76.4								
1274.	3.36	34.56			27.52	67.0								

TEMPERATURE ERROR TERM AT 300. METERS IS 0.15

ΔFROM ST DATA
 *INTERPOLATED DATA
 ***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL		4, STATION		33, 20-30N LAT, 147-59W LONG, MAY	31, 1964, 2300 G.C.T.								
DRY BULB 24.1		WET BULB 20.7		WIND SPEED 20, DIR. 08		BAR. 20		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	23.69	34.56			23.42	447.2	0.	23.69	34.56	23.42	447.2	0.000	
10.	23.56	34.55			23.45	444.7	10.	23.56	34.55	23.45	444.7	0.045	
51.	22.42	34.84			24.60	394.0	20.	23.30	34.61	23.57	433.9	0.089	
77.	21.97	34.92			24.19	377.1	30.	23.03	34.67	23.70	422.1	0.132	
102.	21.70	35.16			24.44	353.6	50.	22.45	34.83	23.98	395.5	0.215	
128.	21.35	35.18			24.55	343.8	75.	22.00	34.91	24.17	378.4	0.312	
154.	21.15	35.22			24.64	336.7	100.	21.72	35.14	24.42	355.3	0.405	
179.	20.15	35.18			24.88	314.7	150.	21.20	35.22	24.62	338.2	0.579	
195.	18.99	34.98			25.03	300.8	200.	18.59	34.91	25.07	296.4	0.739	
228.	16.29	34.60			25.39	266.4	250.	14.62	34.60	25.76	231.4	0.972	
256.	14.14	34.59			25.85	223.1	300.	11.52	34.13	26.02	206.4	0.983	
283.	12.43	34.27			25.92	216.2	400.	8.27	34.09	26.54	157.2	1.166	
307.	11.18	34.11			26.07	201.9	500.	6.58	34.21	26.87	126.0	1.309	
409.	8.10	34.11			26.58	153.5	600.	5.91	34.33	27.06	109.3	1.428	
510.	6.47	34.22			26.90	123.7	700.	5.39	34.41	27.18	97.9	1.533	
610.	5.87	34.34			27.07	108.1	800.	4.92	34.46	27.28	89.5	1.627	
813.	4.86	34.46*			27.29	88.6	1000.	4.20	34.51	27.40	78.8	1.798	
1015.	4.16	34.51			27.40	78.2	1200.	3.64	34.54	27.48	71.4	1.950	
1213.	3.61	34.54			27.48	71.0	1500.	2.93	34.58	27.58	61.9	2.153	
1514.	2.90	34.58			27.58	61.6							

CROMWELL		4, STATION		34, 22-34N LAT, 147-58W LONG, JUNE	1, 1964, 1400 G.C.T.									
DRY BULB 22.5		WET BULB 19.0		WIND SPEED 10, DIR. 07		BAR. 21		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	EXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	23.32	34.78			23.69	421.0	0.	23.32	34.78	23.69	421.0	0.000		
11.	23.33	34.78			23.69	421.7	10.	23.33	34.78	23.69	421.8	0.042		
57.	22.64	35.09			24.13	382.2	20.	23.24	34.83	23.76	415.9	0.085		
82.	22.24	35.14			24.28	368.7	30.	23.12	34.89	23.84	408.4	0.126		
108.	21.66	35.14			24.44	354.2	50.	22.79	35.04	24.04	389.8	0.207		
137.	21.16	35.22			24.64	336.3	75.	22.36	35.13	24.24	372.2	0.303		
163.	20.34	35.14			24.80	321.8	100.	21.84	35.14	24.39	358.7	0.395		
189.	18.92	35.00			25.06	297.4	150.	20.81	35.19	24.71	329.6	0.568		
215.	17.41	34.79			25.27	277.6	200.	18.31	34.92	25.15	289.0	0.724		
241.	15.51	34.53			25.52	254.8	250.	14.90	34.45	25.59	247.7	0.859		
269.	13.67	34.31			25.74	233.4	300.	11.78	34.14	25.98	210.6	0.975		
294.	12.10	34.16			25.94	214.7	400.	8.45	34.04	26.48	163.6	1.164		
322.	10.74	34.09			26.13	196.8	500.	6.35	34.06	26.79	133.4	1.314		
428.	7.91	34.06			26.57	154.7	600.	5.17	34.18	27.02	111.2	1.437		
534.	5.77	34.08			26.88	125.1	700.	4.70	34.32	27.19	95.7	1.542		
637.	4.98	34.24			27.10	104.5	800.	4.39	34.42	27.31	85.4	1.633		
847.	4.30	34.46			27.35	82.1	1000.	3.87	34.51	27.43	74.5	1.795		
1054.	3.74	34.52			27.45	72.7	1200.	3.43	34.56	27.51	67.4	1.939		
1259.	3.31	34.57			27.53	65.5	1500.	2.82	34.60	27.60	59.3	2.131		
1565.	2.71	34.60			27.61	58.1								

CROMWELL		4, STATION		35, 23-32N LAT, 147-59W LONG, JUNE		1, 1964, 2200 G.C.T.									
DRY BULB 23.0		WET BULB 19.4		WIND SPEED 15, DIR. 11		BAR. 22		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 1			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	23.44	35.08			23.89	402.7	0.	23.44	35.08	23.89	402.7	0.000			
10.	22.93	35.05			24.01	391.2	10.	22.93	35.05	24.01	391.2	0.040			
51.	22.11	35.19			24.35	360.4	20.	22.65	35.07	24.11	382.5	0.079			
77.	21.42	35.22			24.57	340.9	30.	22.42	35.10	24.19	374.6	0.117			
103.	21.38	35.24			24.59	339.4	50.	22.12	35.18	24.34	361.0	0.191			
127.	21.02	35.29			24.73	327.2	75.	21.46	35.22	24.55	342.1	0.280			
154.	20.59	35.29			24.84	317.1	100.	21.38	35.24	24.59	339.4	0.366			
179.	20.20	35.26			24.93	310.2	150.	20.65	35.29	24.83	318.4	0.531			
195.	19.75	35.18*			24.98	305.7	200.	19.48	35.13	25.02	302.2	0.688			
229.	17.66	34.82			25.24	281.7	250.	16.50	34.65	25.38	268.3	0.832			
256.	16.14	34.60			25.43	263.9	300.	12.69	34.22	25.87	221.2	0.955			
283.	13.92	34.34*			25.71	236.6	400.	9.07	34.06	26.39	172.1	1.153			
308.	12.16	34.18			25.94	214.7	500.	6.63	34.01	26.71	141.0	1.311			
410.	8.91	34.07			26.43	168.9	600.	5.18	34.34	27.15	99.3	1.433			
512.	6.38	34.02			26.75	137.3	700.	4.58	34.43	27.30	85.9	1.526			
613.	5.06	34.39			27.21	94.1	800.	4.36	34.39	27.28	87.8	1.614			
815.	4.36	34.37			27.27	89.1	1000.	3.95	34.48	27.40	77.9	1.782			
1017.	3.92	34.49			27.41	76.8	1200.	3.48	34.51	27.47	71.6	1.933			
1218.	3.44	34.51			27.47	71.2	1500.	2.92	34.56	27.56	63.3	2.138			
1519.	2.89	34.56			27.57	63.0									

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 23.0		4, STATION WET BULB 20.5		36, 25- ON LAT, 147-59W LCNG, JUNE WIND SPEED 11, DIR. 13		2, 1964, 0800 G.C.T. BAR. 23		WEATHER 02		VIS. 9	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
1.	22.98	35.24			24.14	378.5	0.	22.98	35.24	24.14	378.5	0.000		
10.	22.32	35.28			24.36	358.0	10.	22.32	35.28	24.36	358.0	0.037		
49.	21.14	35.33			24.73	324.6	20.	21.86	35.30	24.51	344.4	0.072		
75.	20.95	35.34			24.79	319.9	30.	21.51	35.32	24.62	334.4	0.107		
99.	20.73	35.32			24.83	316.5	50.	21.13	35.33	24.73	324.3	0.173		
123.	20.46	35.28			24.90	310.8	75.	20.95	35.34	24.79	319.9	0.254		
147.	19.52	35.14			25.01	300.6	100.	20.72	35.32	24.83	316.3	0.334		
171.	18.63	34.97			25.11	292.0	150.	19.42	35.12	25.02	299.7	0.489		
186.	17.88	34.86			25.21	282.6	200.	16.92	34.72	25.34	271.1	0.633		
219.	15.47	34.52			25.52	254.0	250.	13.34	34.30	25.80	227.2	0.759		
245.	13.51	34.31			25.77	230.0	300.	11.30	34.12	26.06	202.9	0.867		
270.	12.68	34.26			25.90	217.7	400.	8.69	34.07	26.46	165.1	1.053		
293.	11.55	34.14			26.03	206.1	500.	6.52	34.02	26.74	138.7	1.206		
392.	8.90	34.08			26.43	167.7	600.	5.37	34.10	26.94	119.2	1.337		
490.	6.67	34.02			26.71	140.9	700.	4.67	34.21	27.11	103.7	1.449		
588.	5.48	34.09			26.92	121.3	800.	4.27	34.32	27.24	91.9	1.548		
783.	4.32	34.30			27.22	93.5	1000.	3.89	34.47	27.40	77.7	1.720		
978.	3.93	34.46			27.39	78.8	1200.	3.47	34.54	27.50	69.0	1.868		
1172.	3.53	34.52			27.47	71.2								
1466.	2.90	34.56			27.57	62.7								

CROMWELL DRY BULB 22.2		4, STATION WET BULB 20.1		37, 26-29N LAT, 148- 0W LCNG, JUNE WIND SPEED 11, DIR. 22		2, 1964, 1700 G.C.T. BAR. 21		WEATHER 01		VIS. 9	CLOUD TYPE B, COVER 2			
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	22.33	35.32			24.39	355.0	0.	22.33	35.32	24.39	355.0	0.000		
9.	22.24	35.29			24.39	355.1	10.	22.22	35.29	24.39	354.8	0.036		
48.	21.39	35.29			24.63	334.0	20.	22.04	35.28	24.44	350.9	0.071		
73.	20.85	35.29			24.77	320.8	30.	21.83	35.28	24.50	345.8	0.106		
97.	20.49	35.29			24.87	312.4	50.	21.34	35.29	24.64	332.8	0.175		
119.	19.94	35.22			24.96	304.3	75.	20.82	35.29	24.78	320.1	0.257		
145.	18.95	35.02			25.07	295.2	100.	20.43	35.29	24.88	311.3	0.337		
168.	17.71	34.82			25.22	280.9	150.	18.72	34.98	25.09	292.8	0.489		
182.	16.66	34.68			25.37	267.4	200.	15.34	34.50	25.53	252.1	0.626		
214.	14.40	34.38			25.64	241.6	250.	12.54	34.21	25.89	218.2	0.745		
240.	13.03	34.26			25.83	223.7	300.	11.04	34.13	26.11	198.0	0.850		
263.	12.00	34.16			25.96	212.1	400.	8.32	34.04	26.49	162.1	1.031		
287.	11.40	34.14			26.05	203.2	500.	6.42	34.02	26.75	137.6	1.183		
381.	8.80	34.05			26.43	168.1	600.	5.49	34.10	26.93	120.6	1.313		
475.	6.74	34.01			26.70	142.4	700.	4.77	34.21	27.10	104.7	1.427		
567.	5.78	34.07			26.87	126.4	800.	4.29	34.32	27.23	92.2	1.526		
751.	4.49	34.27			27.18	97.5	1000.	3.78	34.45	27.39	78.1	1.699		
939.	3.91	34.42			27.36	81.2	1200.	3.36	34.53	27.49	68.9	1.848		
1125.	3.56	34.49			27.45	73.4								
1410.	3.00	34.56			27.56	63.6								

CROMWELL DRY BULB 23.3		4, STATION WET BULB 21.7		38, 25- ON LAT, 151- 0W LCNG, JUNE WIND SPEED 16, DIR. 25		3, 1964, 1100 G.C.T. BAR. 18		WEATHER 02		VIS. 8	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
2.	23.26	35.22			24.05	387.7	0.	23.26	35.22	24.05	387.6	0.000		
9.	23.26	35.24			24.06	386.5	10.	23.22	35.24	24.07	385.2	0.039		
30.Δ	22.14	35.30			24.43	352.5	20.	22.73	35.27	24.24	370.3	0.077		
42.	21.77	35.33			24.55	340.9	30.	22.14	35.30	24.43	352.5	0.113		
67.	21.37	35.34			24.67	330.5	50.	21.61	35.34	24.60	336.3	0.183		
88.	21.06	35.30			24.73	326.1	75.	21.29	35.33	24.69	329.3	0.267		
109.	20.00	35.14			24.89	311.3	100.	20.50	35.22	24.81	318.3	0.348		
131.	18.81	34.98			25.07	294.2	150.	17.99	34.87	25.19	283.2	0.500		
152.	17.91	34.86			25.21	282.1	200.	14.85	34.49	25.63	242.3	0.632		
167.	17.18	34.76			25.31	272.9	250.	12.56	34.30	25.96	211.7	0.747		
193.	15.25	34.54			25.58	247.1	300.	11.25	34.23	26.15	194.5	0.849		
216.	14.03	34.40			25.74	232.6	400.	9.23	34.10	26.40	171.4	1.034		
240.	12.88	34.32			25.91	216.4	500.	6.68	34.02	26.71	141.4	1.192		
261.	12.26	34.29			26.01	207.4	600.	5.21	34.07	26.94	119.5	1.323		
345.	10.25	34.16			26.27	183.0	700.	4.68	34.20	27.10	104.5	1.437		
429.	8.67	34.08			26.47	164.8	800.	4.27	34.31	27.23	92.7	1.536		
513.	6.33	34.01			26.75	137.4	1000.	3.73	34.46	27.41	76.4	1.707		
683.	4.77	34.18			27.07	106.9	1200.	3.28	34.54	27.51	67.3	1.853		
855.	4.12	34.36			27.29	87.4								
1031.	3.66	34.48			27.43	74.6								
1308.	3.11	34.54			27.53	65.7								

TEMPERATURE ERROR TERM AT 600. METERS IS 0.14

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL 4, STATION 39, 24-56N LAT, 153-59W LONG, JUNE 4, 1964, 0200 G.C.T.													
DRY BULB 23.5		WET BULB 20.1		WIND SPEED 12, DIR. 33		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.09	35.07***			23.69	421.7	0.	24.09	35.07	23.69	421.7	0.000	
10.	23.82	34.99			23.71	420.2	10.	23.82	34.99	23.71	420.2	0.062	
50.	23.36	34.98			23.83	409.6	20.	23.69	34.96	23.72	419.4	0.085	
79.	22.58	35.06			24.12	383.5	30.	23.57	34.95	23.75	417.3	0.127	
103.	21.56	35.06			24.41	357.1	50.	23.36	34.98	23.83	409.6	0.210	
129.	20.38	35.03			24.70	329.6	75.	22.71	35.05	24.07	387.8	0.311	
154.	19.28	35.02			24.98	303.6	100.	21.70	35.06	24.37	360.5	0.405	
180.	18.05	34.89			25.19	284.2	150.	19.46	35.02	24.94	307.5	0.573	
195.	17.26	34.80*			25.32	272.8	200.	17.01	34.77	25.35	269.6	0.719	
230.	15.45	34.56			25.55	251.0	250.	14.29	34.43	25.70	236.6	0.846	
257.	13.90	34.39			25.76	231.8	300.	11.90	34.20	26.01	208.0	0.958	
284.	12.67	34.27			25.91	217.1	400.	8.95	34.06	26.41	170.2	1.149	
308.	11.52	34.17			26.05	203.7	500.	6.92	34.02	26.68	144.4	1.308	
410.	8.77	34.06			26.44	167.5	600.	5.53	34.07	26.90	123.7	1.443	
512.	6.71	34.02			26.71	141.8	700.	4.72	34.17	27.07	107.1	1.560	
613.	5.40	34.08			26.92	121.3	800.	4.24	34.28	27.21	94.0	1.662	
814.	4.20	34.30			27.23	92.4	1000.	3.84	34.45	27.39	78.7	1.836	
1018.	3.82	34.46			27.40	77.8	1200.	3.41	34.52	27.48	70.2	1.987	
1219.	3.37	34.52			27.49	69.6	1500.	2.82	34.56	27.57	61.9	2.188	
1521.	2.78	34.56			27.58	61.6							

CROMWELL 4, STATION 40, 25- ON LAT, 157- 1W LONG, JUNE 4, 1964, 1900 G.C.T.														
DRY BULB 23.3			WET BULB 19.4		WIND SPEED 02, DIR. 27		BAR. 15		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH		
0.	23.71	35.28			23.96	395.8	0.	23.71	35.28	23.96	395.8	0.000		
10.	23.48	35.28			24.03	389.8	10.	23.48	35.28	24.03	389.8	0.040		
51.	22.30	35.30			24.38	357.6	20.	23.17	35.28	24.12	381.3	0.078		
76.	22.05	35.32			24.47	350.4	30.	22.87	35.29	24.21	373.2	0.116		
102.	21.45	35.31			24.63	336.1	50.	22.33	35.30	24.37	358.3	0.190		
126.	20.62	35.22			24.78	321.9	75.	22.06	35.32	24.46	350.6	0.279		
152.	19.22	35.04			25.01	300.6	100.	21.51	35.31	24.61	337.4	0.366		
177.	18.01	34.86			25.18	285.3	150.	19.33	35.06	25.00	302.2	0.527		
192.	17.29	34.78			25.29	274.8	200.	16.97	34.74	25.34	270.8	0.672		
226.	15.82	34.60			25.50	256.0	250.	14.22	34.46	25.74	233.2	0.799		
253.	14.02	34.44			25.77	230.5	300.	12.09	34.25	26.01	208.1	0.910		
278.	12.94	34.34			25.91	217.1	400.	9.07	34.08	26.41	170.3	1.101		
305.	11.91	34.23			26.03	206.3	500.	6.61	34.00	26.71	141.7	1.258		
405.	8.94	34.08			26.43	168.6	600.	5.19	34.10	26.96	116.8	1.389		
500.	6.61	34.00			26.71	141.7	700.	4.68	34.21	27.10	104.0	1.501		
578.	5.37	34.08			26.93	120.5	800.	4.37	34.30	27.21	94.5	1.601		
735.	4.62	34.24			27.14	101.1	1000.	3.73	34.44	27.39	78.4	1.776		
891.	4.07	34.37			27.30	86.4	1200.	3.23	34.52	27.50	67.7	1.924		
1048.	3.60	34.46			27.42	75.5								
1283.	3.06	34.54			27.53	64.9								

CROMWELL 4, STATION 41, 23-30N LAT, 156-59W LONG, JUNE 5, 1964, 0500 G.C.T.												
DRY BULB 24.0			WET BULB 20.0		WIND SPEED 05, DIR. 20		BAR. 17		WEATHER 01		VIS. 8 CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.58	35.14			23.59	430.6	0.	24.58	35.14	23.59	430.6	0.000
10.	24.15	35.10			23.69	421.6	10.	24.15	35.10	23.69	421.6	0.043
30. ^Δ	23.88	35.12			23.79	413.3	20.	23.96	35.10	23.75	416.8	0.085
52.	23.61	35.18			23.91	402.3	30.	23.88	35.12	23.79	413.3	0.127
78.	23.42	35.20			23.98	396.5	50.	23.63	35.17	23.90	403.2	0.209
104.	22.70	35.18			24.18	379.1	75.	23.45	35.20	23.97	397.3	0.310
129.	22.52	35.18			24.23	375.2	100.	22.81	35.18	24.15	381.7	0.408
154.	20.19	35.08			24.75	322.0	150.	20.61	35.10	24.70	331.0	0.588
181.	18.63	34.93			25.08	295.2	200.	17.41	34.82	25.30	274.6	0.740
196.	17.65	34.85			25.26	278.2	250.	14.13	34.44	25.75	232.3	0.868
230.	15.54	34.60			25.56	250.0	300.	11.62	34.20	26.06	203.1	0.978
256.	13.72	34.40			25.80	227.5	400.	9.00	34.13	26.46	165.7	1.164
282.	12.33	34.24			25.96	212.8	500.	7.17	34.10	26.71	142.1	1.319
308.	11.34	34.19			26.10	199.0	600.	5.89	34.17	26.93	121.1	1.452
408.	8.85	34.13			26.48	163.5	700.	4.99	34.26	27.11	104.0	1.566
506.	7.08	34.10			26.72	140.9	800.	4.40	34.35	27.25	90.9	1.665
604.	5.85	34.17			26.94	120.3	1000.	3.87	34.48	27.41	76.6	1.834
799.	4.40	34.35			27.25	90.9	1200.	3.42	34.55	27.51	67.5	1.980
992.	3.89	34.48			27.41	77.0						
1187.	3.45	34.54*			27.50	68.9						
1479.	2.89	34.59			27.59	60.5						

ΔFROM ST DATA
 *INTERPOLATED DATA
 ***SAMPLE BOTTLE CRACKED

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA						
CROMWELL 4, STATION 42, 22- ON LAT, 157- 2W LONG, JUNE 5, 1964, 1500 G.C.T.												
DRY BULB 24.8		WET BULB 21.0		WIND SPEED 15, DIR. 05		BAR. 19		WEATHER 02		VIS. 8 CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	24.30	34.71			23.35	453.6	0.	24.30	34.71	23.35	453.6	0.000
11.	24.31	34.71			23.35	454.3	10.	24.33	34.71	23.35	454.8	0.046
30.Δ	23.40	34.76			23.66	425.9	20.	23.90	34.73	23.49	441.7	0.091
50.	23.27	34.79			23.72	420.9	30.	23.40	34.76	23.66	425.9	0.135
76.	23.03	34.93			23.89	405.1	50.	23.27	34.79	23.72	420.9	0.220
101.	22.80	35.00			24.01	394.7	75.	23.04	34.92	23.89	405.8	0.324
126.	22.65	35.07			24.11	386.5	100.	22.81	35.00	24.01	395.1	0.425
151.	21.92	35.16			24.38	361.2	150.	21.96	35.16	24.37	362.4	0.616
174.	20.94	35.14			24.64	337.7	200.	20.04	35.08	24.83	320.0	0.788
191.	20.31	35.10			24.77	325.0	250.	17.39	34.77	25.26	279.9	0.939
223.	19.16	34.98			24.98	305.9	300.	13.24	34.29	25.81	227.5	1.067
253.	17.16	34.74			25.30	276.7	400.	9.07	34.15	26.46	165.7	1.265
277.	15.35	34.57			25.58	249.5	500.	7.15	34.14	26.74	139.0	1.419
302.	13.06	34.26			25.83	225.9	600.	5.99	34.20	26.94	120.0	1.550
401.	9.06	34.15			26.46	165.2	700.	5.30	34.30	27.11	104.9	1.663
502.	7.13	34.14			26.74	138.6	800.	4.87	34.40	27.24	93.1	1.764
601.	5.98	34.20			26.94	119.8	1000.	4.15	34.49	27.39	79.5	1.938
802.	4.86	34.40			27.24	92.9	1200.	3.57	34.53	27.48	71.1	2.091
1001.	4.15	34.49			27.39	79.5						
1200.	3.57	34.53			27.48	71.1						
1497.	2.90	34.58			27.58	61.5						

ΔFROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 5

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 5, STATION 1, 20-35N LAT, 157-16W LONG, JUNE 16, 1964, 0800 G.C.T.												
DRY BULB 25.0		WET BULB 22.2		WIND SPEED 16, DIR. 12		BAR. 17	WEATHER 01		VIS. 8	CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.77	34.78			22.96	491.2	0.	25.77	34.78	22.96	491.2	0.000
11.	25.75	34.78			22.97	491.1	10.	25.77	34.78	22.96	491.4	0.049
30.6	24.96	34.76			23.19	470.1	20.	25.39	34.77	23.07	481.5	0.098
48.	24.88	34.76			23.22	468.5	30.	24.96	34.76	23.19	470.1	0.146
74.	24.49	34.73			23.31	460.5	50.	24.87	34.75	23.21	469.0	0.241
98.	23.53	35.15			23.91	404.0	75.	24.46	34.75	23.34	458.3	0.358
122.	22.41	35.11			24.21	377.0	100.	23.45	35.16	23.94	401.5	0.466
147.	20.68	35.09			24.67	333.6	150.	20.55	35.08	24.70	330.9	0.651
170.	19.72	35.02			24.87	315.1	200.	18.24	34.90	25.15	289.3	0.807
184.	18.90	34.96			25.03	299.7	250.	14.98	34.53	25.63	243.6	0.941
217.	17.52	34.82			25.27	278.0	300.	11.79	34.25	26.07	202.6	1.054
242.	15.41	34.58			25.58	249.0	400.	8.26	34.14	26.58	153.6	1.233
268.	14.06	34.44			25.76	231.7	500.	6.49	34.20	26.88	125.1	1.374
292.	12.24	34.28			26.00	208.5	600.	5.76	34.30	27.05	109.8	1.493
388.	8.58	34.14			26.53	158.2	700.	5.23	34.38	27.18	97.6	1.598
486.	6.64	34.19			26.85	127.9	800.	4.83	34.45	27.28	88.9	1.692
583.	5.87	34.28			27.02	112.2	1000.	4.20	34.51	27.39	78.9	1.862
778.	4.91	34.44			27.26	90.3	1200.	3.58	34.55	27.49	70.0	2.013
973.	4.30	34.50			27.38	80.3						
1168.	3.63	34.54			27.48	70.9						
1461.	2.92	34.58			27.58	61.5						

CROMWELL 5, STATION 2, 19- ON LAT, 157- ON LONG, JUNE 16, 1964, 1800 G.C.T.													
DRY BULB 25.2		WET BULB 22.4		WIND SPEED 19, DIR. 11		BAR. 16		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.02	34.64			22.78	508.7	0.	26.02	34.64	22.78	508.7	0.000	
11.	25.99	34.64			22.79	508.3	10.	25.99	34.64	22.79	508.3	0.051	
30.Δ	25.99	34.64			22.79	509.0	20.	26.01	34.64	22.78	509.3	0.102	
51.	25.55	34.68			22.95	493.9	30.	25.99	34.64	22.79	509.0	0.154	
76.	24.41	35.00			23.54	438.8	50.	25.58	34.68	22.94	495.2	0.255	
101.	23.74	35.15			23.85	410.0	75.	24.46	34.99	23.52	441.1	0.373	
125.	22.41	35.16			24.24	373.5	100.	23.77	35.15	23.84	411.0	0.480	
149.	19.80	34.96			24.80	320.7	150.	19.73	34.96	24.82	319.4	0.664	
176.	17.64	34.74			25.18	285.3	200.	15.14	34.43	25.52	253.3	0.809	
188.	15.90	34.52			25.42	262.4	250.	12.18	34.23	25.98	210.0	0.925	
223.	14.32	34.36			25.64	241.6	300.	9.95	34.18	26.34	175.5	1.023	
250.	12.18	34.23			25.98	210.0	400.	7.73	34.16	26.68	144.2	1.184	
276.	11.10	34.20			26.15	193.2	500.	6.06	34.16	26.90	122.5	1.318	
300.	9.95	34.18			26.34	175.5	600.	5.67	34.33	27.09	106.1	1.434	
400.	7.73	34.16			26.68	144.2	700.	5.24	34.42	27.21	95.0	1.536	
500.	6.06	34.16			26.90	122.5	800.	4.80	34.47	27.30	87.0	1.628	
600.	5.67	34.33			27.09	106.1	1000.	4.03	34.54	27.44	74.3	1.791	
800.	4.80	34.47			27.30	87.0	1200.	3.52	34.57	27.51	67.6	1.934	
1000.	4.03	34.54			27.44	74.3	1500.	2.79	34.61	27.61	58.0	2.125	
1200.	3.52	34.57			27.51	67.6							
1500.	2.79	34.61			27.61	58.0							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25

CROMWELL 5, STATION 3, 17-30N LAT, 157- ON LONG, JUNE 17, 1964, 0300 G.C.T.													
DRY BULB 25.1		WET BULB 22.5		WIND SPEED 22, DIR. 08		BAR. 15		WEATHER 00		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.09	34.64			23.06	481.4	0.	25.09	34.64	23.06	481.4	0.000	
9.	25.09	34.65			23.07	481.0	10.	25.09	34.65	23.07	481.0	0.048	
30.6	25.09	34.65			23.07	481.8	20.	25.09	34.65	23.07	481.3	0.097	
48.	25.06	34.65			23.08	481.7	30.	25.09	34.65	23.07	481.8	0.145	
72.	24.05	34.69			23.41	450.7	50.	24.98	34.65	23.10	479.7	0.242	
95.	24.00	35.08			23.72	422.1	75.	24.04	34.74	23.45	446.9	0.359	
119.	23.11	35.13			24.02	394.6	100.	23.91	35.11	23.77	417.4	0.468	
143.	20.81	35.00			24.56	343.3	150.	20.36	34.98	24.67	333.1	0.657	
168.	19.42	34.93			24.88	314.1	200.	17.38	34.70	25.21	282.8	0.812	
181.	18.80	34.84			24.97	305.8	250.	13.12	34.31	25.86	221.8	0.939	
214.	16.19	34.60			25.42	263.7	300.	10.98	34.23	26.20	189.7	1.043	
239.	14.26	34.42			25.70	236.5	400.	8.32	34.25	26.66	146.2	1.213	
262.	12.04	34.22			26.00	208.4	500.	6.89	34.27	26.88	125.7	1.350	
285.	11.43	34.22			26.11	197.8	600.	6.26	34.40	27.07	108.7	1.468	
382.	8.70	34.26			26.61	151.1	700.	5.68	34.46	27.18	98.2	1.573	
477.	7.10	34.24			26.83	130.4	800.	5.15	34.48	27.27	90.6	1.668	
573.	6.43	34.38			27.03	112.2	1000.	4.26	34.53	27.40	78.1	1.839	
765.	5.34	34.47			27.24	93.5	1200.	3.57	34.55	27.50	69.3	1.988	
956.	4.42	34.52			27.38	80.1							
1148.	3.78	34.54			27.46	72.5							
1438.	2.93	34.58			27.58	61.5							

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 5, STATION 4, 16-04 LAT, 156-59W LONG, JUNE 17, 1964, 1300 G.C.T.												
DRY BULB 25.1		WET BULB 22.3		WIND SPEED 19, DIR. 08		BAR. 14		WEATHER 00		VIS. 7		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.30	34.57			22.95	492.5	0.	25.30	34.57	22.95	492.5	0.000
10.	25.32	34.57			22.94	493.5	10.	25.32	34.57	22.94	493.5	0.050
30.Δ	25.32	34.57			22.94	494.3	20.	25.32	34.57	22.94	494.0	0.099
50.Δ	25.32	34.57			22.94	495.1	30.	25.32	34.57	22.94	494.3	0.149
76.	24.71	34.65			23.34	458.3	50.	25.32	34.57	22.94	495.1	0.249
100.	23.01	34.92			23.89	406.2	75.	24.27	34.64	23.31	460.3	0.369
126.	21.77	35.02			24.32	366.4	100.	23.01	34.92	23.89	406.2	0.478
151.	19.92	35.02			24.82	319.4	150.	20.01	35.02	24.80	321.4	0.662
176.	16.74	34.62			25.30	273.4	200.	14.93	34.45	25.58	247.3	0.805
191.	15.64	34.51			25.47	257.6	250.	11.26	34.25	26.17	191.7	0.916
224.	13.05	34.31			25.87	220.0	300.	9.76	34.29	26.46	164.1	1.005
251.	11.20	34.25			26.18	190.7	400.	8.46	34.48	26.82	131.6	1.155
277.	10.27	34.22			26.31	177.8	500.	7.23	34.46	26.98	116.2	1.280
302.	9.72	34.30			26.47	162.9	600.	6.31	34.48	27.12	103.6	1.391
402.	8.44	34.48			26.82	131.2	700.	5.74	34.50	27.21	95.7	1.491
504.	7.18	34.46			26.95	115.7	800.	5.32	34.52	27.28	90.1	1.585
604.	6.28	34.48			27.13	103.2	1000.	4.47	34.55	27.40	79.0	1.756
807.	5.30	34.52			27.28	89.8	1200.	3.80	34.52	27.45	74.6	1.912
1008.	4.44	34.55			27.40	78.7	1500.	3.02	34.61	27.59	61.0	2.118
1208.	3.78	34.52			27.45	74.5						
1510.	3.00	34.61			27.60	60.6						

CROMWELL 5, STATION 5, 14-30N LAT, 157- 0W LONG, JUNE 17, 1964, 2300 G.C.T.												
DRY BULB 26.0		WET BULB 22.5		WIND SPEED 22, DIR. 07		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	OXY.	PD4-R	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.54	34.58			22.88	498.8	0.	25.54	34.58	22.88	498.8	0.000
10.	25.49	34.58			22.90	497.8	10.	25.49	34.58	22.90	497.8	0.050
30.	25.49	34.58			22.90	498.5	20.	25.48	34.58	22.90	497.9	0.100
50.	25.49	34.58			22.90	499.3	30.	25.49	34.58	22.90	498.5	0.151
75.	24.36	34.58			23.24	467.6	50.	25.49	34.58	22.90	499.3	0.251
100.	22.79	34.97			23.99	396.6	75.	24.36	34.58	23.24	467.6	0.373
125.	20.98	35.06			24.56	342.7	100.	22.79	34.97	23.99	396.6	0.482
150.	19.32	34.99			24.95	306.6	150.	19.32	34.99	24.95	306.6	0.659
175.	15.93	34.58			25.46	258.3	200.	13.00	34.42	25.97	210.1	0.789
190.	13.57	34.36			25.80	225.6	250.	10.34	34.44	26.48	161.9	0.883
223.	12.39	34.65			26.26	182.5	300.	10.33	34.66	26.65	146.5	0.961
250.	10.34	34.44			26.48	161.9	400.	9.36	34.64	26.80	134.0	1.102
275.	10.56	34.67			26.62	149.3	500.	8.29	34.58	26.92	123.3	1.232
301.	10.32	34.66			26.65	146.5	600.	7.29	34.54	27.04	112.9	1.351
401.	9.35	34.64			26.80	133.9	700.	6.42	34.52	27.14	103.3	1.460
501.	8.28	34.58			26.92	123.2	800.	5.69	34.52	27.23	94.8	1.561
601.	7.28	34.54			27.04	112.8	1000.	4.68	34.54	27.37	82.4	1.740
801.	5.68	34.52			27.24	94.7	1200.	3.91	34.56	27.47	73.1	1.897
1002.	4.67	34.54			27.37	82.3	1500.	3.06	34.60	27.58	61.9	2.103
1201.	3.91	34.56			27.47	73.1						
1503.	3.05	34.60			27.58	61.9						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.25
SALINITY ERROR TERM AT 200. METERS IS 0.06

CROMWELL 5, STATION 6, 13- ON LAT, 157- 1W LONG, JUNE 18, 1964, 0900 G.C.T.												
DRY BULB 26.1		WET BULB 22.7		WIND SPEED 21, DIR. 07		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	26.57	34.74			22.68	518.0	0.	26.57	34.74	22.68	518.0	0.000
9.	26.60	34.74			22.67	519.3	10.	26.60	34.74	22.67	519.3	0.052
30.Δ	26.60	34.74			22.67	520.1	20.	26.61	34.74	22.67	519.9	0.105
50.Δ	26.60	34.74			22.67	520.9	30.	26.60	34.74	22.67	520.1	0.157
70.	26.57	34.74			22.68	520.8	50.	26.60	34.74	22.67	520.9	0.262
93.	24.72	34.50			23.07	484.4	75.	26.19	34.68	22.76	513.6	0.392
100.Δ	24.46	34.50			23.15	477.2	100.	24.46	34.50	23.15	477.2	0.517
117.	21.00	34.60			24.21	376.2	150.	12.29	34.31	26.01	204.1	0.689
141.	13.40	34.38			25.85	219.5	200.	10.33	34.33	26.39	169.0	0.783
164.	11.57	34.24			26.10	196.0	250.	9.29	34.37	26.60	149.6	0.863
178.	11.05	34.28			26.23	184.2	300.	8.87	34.44	26.72	138.7	0.936
209.	10.09	34.34			26.44	164.1	400.	8.27	34.55	26.90	123.4	1.068
234.	9.62	34.36			26.54	155.5	500.	7.41	34.51	27.00	115.2	1.188
257.	9.17	34.38			26.63	147.3	600.	6.60	34.50	27.10	106.0	1.300
281.	8.98	34.41			26.66	142.5	700.	5.95	34.51	27.19	97.8	1.403
375.	8.46	34.55			26.87	125.9	800.	5.42	34.53	27.27	90.9	1.498
469.	7.68	34.52			26.96	118.0	1000.	4.60	34.54	27.38	81.1	1.672
564.	6.87	34.50			27.06	109.3	1200.	3.88	34.56	27.47	72.9	1.828
754.	5.65	34.52			27.24	93.7						
943.	4.82	34.54			27.35	83.6						
1133.	4.12	34.55			27.44	75.9						
1424.	3.20	34.57			27.55	65.4						

TEMPERATURE ERROR TERM AT 150. METERS IS 0.16

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 5, STATION 7, 11-24N LAT, 157- 0W LONG, JUNE 18, 1964, 1800 G.C.T. DRY BULB 26.7 WET BULB 23.7 WIND SPEED 16, DIR. 08 BAR. 14 WEATHER 03 VIS. 6 CLOUD TYPE 8, COVER 6												
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	26.93	34.64			22.49	536.1	0.	26.93	34.64	22.49	536.1	0.000
10.	26.91	34.64			22.50	535.9	10.	26.91	34.64	22.50	535.9	0.054
30.Δ	26.92	34.64			22.49	537.0	20.	26.91	34.64	22.50	536.3	0.108
50.Δ	26.93	34.64			22.49	538.1	30.	26.92	34.64	22.49	537.0	0.162
73.	26.94	34.66			22.50	537.9	50.	26.93	34.64	22.49	538.1	0.270
97.	22.62	34.66			23.81	414.2	75.	26.70	34.66	22.58	530.4	0.405
121.	16.62	34.56			25.29	273.3	100.	21.86	34.66	24.01	394.3	0.521
145.	12.49	34.26			25.94	211.0	150.	12.15	34.29	26.03	202.6	0.672
170.	11.56	34.48			26.29	178.4	200.	11.12	34.61	26.47	161.8	0.764
183.	11.24	34.52			26.38	170.0	250.	10.52	34.67	26.63	147.8	0.842
216.	11.07	34.68			26.53	156.1	300.	9.99	34.68	26.72	139.5	0.914
242.	10.60	34.67			26.61	149.2	400.	9.01	34.63	26.85	128.7	1.050
268.	10.37	34.68			26.66	145.1	500.	8.19	34.59	26.95	120.9	1.175
291.	10.09	34.68			26.71	140.9	600.	7.24	34.55	27.06	111.1	1.293
387.	9.11	34.64			26.84	129.7	700.	6.47	34.54	27.15	103.1	1.401
485.	8.34	34.60			26.93	122.4	800.	5.82	34.53	27.23	95.9	1.502
581.	7.40	34.56			27.04	112.8	1000.	4.74	34.54	27.36	83.0	1.682
777.	5.97	34.53			27.21	97.6	1200.	3.92	34.56	27.47	73.1	1.840
972.	4.86	34.54			27.35	84.4						
1167.	4.10	34.56			27.45	75.2						
1462.	3.13	34.60			27.59	62.6						

CROMWELL 5, STATION 7A, 9-55N LAT, 154- 2W LONG, JUNE 19, 1964, 1500 G.C.T. ORY BULB 25.7 WET BULB 23.4 WIND SPEED 16, DIR. 09 BAR. 11 WEATHER 02 VIS. 7 CLOUD TYPE 4, COVER 7												
DEPTH	TEMP.	SAL.	EXY.	PO4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	EELTA	DYN.DPTH.
0.	26.86	34.16			22.15	568.5	0.	26.86	34.16	22.15	568.5	0.000
10.	26.85	34.16			22.16	568.6	10.	26.85	34.16	22.16	568.6	0.057
30.Δ	26.85	34.16			22.16	569.4	20.	26.93	34.14	22.11	573.0	0.115
50.	25.59	34.52			22.82	506.6	30.	26.85	34.16	22.16	569.4	0.172
59.	24.93	34.58			23.07	483.4	50.	25.59	34.52	22.82	506.6	0.281
69.	20.22	34.76			24.54	342.9	75.	19.19	34.80	24.84	314.4	0.384
79.	18.66	34.78			24.96	303.3	100.	13.88	34.34	25.73	230.4	0.453
88.	15.96	34.52			25.41	260.7	150.	11.64	34.77	26.50	158.1	0.551
98.	14.12	34.36			25.69	234.1	200.	10.81	34.74	26.63	146.8	0.627
108.	13.12	34.32			25.86	217.6	250.	10.35	34.72	26.69	141.6	0.700
147.	11.71	34.76			26.48	160.0	300.	9.90	34.70	26.75	136.6	0.770
197.	10.84	34.74			26.62	147.2	400.	9.04	34.66	26.86	127.5	0.904
247.	10.38	34.72			26.69	141.9	500.	8.17	34.62	26.97	118.8	1.028
296.	9.94	34.70			26.75	137.0	600.	7.03	34.58	27.10	106.4	1.142
395.	9.08	34.66			26.86	127.9	700.	6.14	34.56	27.21	96.6	1.244
493.	8.25	34.62			26.96	119.7	800.	5.44	34.56	27.30	88.5	1.338
592.	7.11	34.58			27.09	107.3	1000.	4.41	34.58	27.43	76.0	1.504
790.	5.50	34.56			27.29	89.2	1200.	3.69	34.60	27.52	67.5	1.649
988.	4.46	34.58			27.42	76.5						
1186.	3.78	34.60			27.51	63.4						
1485.	3.04	34.62			27.60	60.1						

TEMPERATURE LRRCR TEMP AT 75. METERS IS 0.19

CROMWELL 5, STATION 8, 11-30N LAT, 154-0W LONG, JUNE 20, 1964, 0100 G.C.T.														
ORY BULB 26.4		WET BULB 24.1		WIND SPEED 18, DIR. 06		BAR. 11		WEATHER 50		VIS. 7		CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	26.71	34.58			22.52	533.7	0.	26.71	34.58	22.52	533.7	0.000		
10. Δ	26.70	34.54			22.52	533.8	10.	26.70	34.58	22.52	533.8	0.054		
30. Δ	26.64	34.54			22.55	532.1	20.	26.67	34.58	22.53	533.1	0.108		
50. Δ	26.54	34.60			22.57	530.4	30.	26.64	34.59	22.55	532.1	0.161		
75. Δ	26.46	34.60			22.61	527.8	50.	26.58	34.60	22.57	530.4	0.268		
80.	25.80	34.62			22.83	506.8	75.	26.46	34.60	22.61	527.8	0.401		
91.	22.00	34.71			24.03	392.2	100.	20.95	34.81	24.39	358.8	0.513		
101.	20.89	34.82			24.41	356.9	150.	15.16	34.46	25.54	249.7	0.666		
110.	20.04	34.84			24.65	334.0	200.	13.14	34.72	26.17	191.1	0.778		
120.	19.01	34.81			24.89	311.0	250.	11.62	34.72	26.46	163.8	0.867		
130.	17.82	34.76			25.15	286.6	300.	10.41	34.62	26.60	150.9	0.946		
140.	16.65	34.66			25.35	267.3	400.	8.99	34.60	26.83	130.3	1.088		
150.	15.16	34.46			25.54	249.7	500.	7.71	34.54	26.98	117.5	1.213		
230.	13.14	34.72			26.17	191.1	600.	6.86	34.52	27.08	108.2	1.327		
250.	11.62	34.72			26.46	163.8	700.	6.06	34.52	27.19	98.5	1.432		
300.	10.41	34.62			26.60	150.9	800.	5.36	34.53	27.28	89.8	1.527		
399.	8.96	34.60			26.83	130.5	1000.	4.44	34.55	27.40	78.7	1.697		
500.	7.71	34.54			26.99	117.5	1200.	3.64	34.58	27.51	68.4	1.846		
600.	6.86	34.52			27.08	108.2	1500.	2.85	34.60	27.60	59.4	2.041		
799.	5.37	34.53			27.28	89.8								
1001.	4.44	34.55			27.40	79.6								
1201.	3.64	34.58			27.51	68.3								
1500.	2.85	34.60			27.60	59.4								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL DRY BULB 26.2		5, STATION WET BULB 22.8		9, 13- IN LAT, 154- WIND SPEED 18, DIR. 05		OW LONG, JUNE 20, 1964, 1000 G.C.T. 8AR. 14		WEATHER 50		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.42	34.64			22.65	520.7	0.	26.42	34.64	22.65	520.7	0.000	
10.	26.41	34.64			22.66	520.8	10.	26.41	34.64	22.66	520.8	0.052	
30.Δ	26.36	34.64			22.67	520.1	20.	26.39	34.64	22.66	520.5	0.105	
50.Δ	26.30	34.64			22.69	519.1	30.	26.36	34.64	22.67	520.1	0.157	
75.	24.00	34.64			23.39	453.0	50.	26.30	34.64	22.69	519.1	0.262	
80.	23.48	34.66			23.56	437.2	73.	24.00	34.64	23.39	453.0	0.384	
90.	23.16	34.84			23.79	415.7	100.	22.02	34.94	24.19	377.9	0.489	
100.	22.02	34.94			24.19	377.9	150.	18.01	34.85	25.17	285.2	0.656	
110.	21.07	35.06			24.54	344.5	200.	12.18	34.27	26.01	205.8	0.780	
120.	20.49	35.09			24.72	327.7	250.	10.16	34.40	26.48	161.4	0.872	
130.	19.68	35.02			24.88	312.7	300.	9.83	34.57	26.67	144.7	0.950	
140.	18.78	34.92			25.03	298.1	400.	8.52	34.56	26.87	126.5	1.087	
150.	18.01	34.85			25.17	285.2	500.	7.63	34.56	27.00	114.9	1.208	
200.	12.18	34.27			26.01	205.8	600.	6.67	34.52	27.11	105.5	1.320	
249.	10.17	34.40			26.47	161.9	700.	5.97	34.52	27.20	97.2	1.422	
299.	9.84	34.57			26.66	145.0	800.	5.43	34.54	27.28	89.9	1.517	
400.	8.52	34.56			26.87	126.5	1000.	4.58	34.57	27.40	78.9	1.688	
499.	7.64	34.56			27.00	115.0	1200.	3.87	34.59	27.49	70.6	1.839	
600.	6.67	34.52			27.11	105.5	1500.	3.04	34.62	27.60	60.2	2.038	
798.	5.44	34.54			27.28	90.0							
998.	4.59	34.57			27.40	79.0							
1199.	3.88	34.58			27.49	71.2							
1500.	3.04	34.62			27.60	60.2							

CROMWELL DRY BULB 25.7					5, STATION WET BULB 22.8	10, 14-30M LAT, 154- WIND SPEED 14, DIR. 04	OW LONG, JUNE 20, 1964, 1900 G.C.T.	8AR. 14	WEATHER 03	VIS. 7	CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.48	34.54			22.87	499.9	0.	25.48	34.54	22.87	499.9	0.000	
10.	25.46	34.54			22.87	499.8	10.	25.46	34.54	22.87	499.8	0.050	
30.Δ	25.47	34.54			22.87	500.8	20.	25.46	34.54	22.87	500.2	0.101	
50.	25.49	34.54			22.87	502.2	30.	25.47	34.54	22.87	500.8	0.151	
75.	22.83	34.70			23.78	416.2	50.	25.49	34.54	22.87	502.2	0.252	
100.	20.09	34.75			24.57	341.4	75.	22.83	34.70	23.78	416.2	0.368	
124.	18.33	34.81			25.06	294.8	100.	20.09	34.75	24.57	341.4	0.463	
148.	15.50	34.57			25.55	248.9	150.	15.38	34.56	25.57	247.2	0.612	
173.	14.22	34.44			25.73	232.4	200.	12.18	34.29	26.02	204.3	0.725	
188.	13.08	34.33			25.88	218.2	250.	10.34	34.44	26.48	161.8	0.818	
220.	10.99	34.30			26.25	182.7	300.	9.95	34.62	26.69	142.8	0.895	
246.	10.41	34.42			26.45	164.4	400.	8.63	34.60	26.88	125.6	1.030	
272.	10.05	34.54			26.60	150.1	500.	7.77	34.55	26.97	117.8	1.153	
296.	9.99	34.62			26.68	143.7	600.	6.90	34.53	27.08	108.1	1.267	
394.	8.69	34.60			26.87	126.1	700.	6.16	34.52	27.17	99.8	1.372	
493.	7.83	34.55			26.97	118.4	800.	5.52	34.52	27.25	92.6	1.469	
592.	6.96	34.53			27.08	108.8	1000.	4.52	34.54	27.39	80.2	1.644	
789.	5.59	34.52			27.25	93.4	1200.	3.81	34.56	27.48	71.6	1.798	
988.	4.57	34.54			27.38	80.9							
1184.	3.92	34.56			27.47	73.1							
1481.	3.11	34.60			27.58	62.4							

CROMWELL DRY BULB 25.3					5, STATION WET BULB 22.8	11, 16- 4M LAT, 154- WIND SPEED 15, DIR. 02	OW LONG, JUNE 21, 1964, 0600 G.C.T.	8AR. 15	WEATHER 02	VIS. 7	CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	26.11	34.76			22.84	502.7	0.	26.11	34.76	22.84	502.7	0.000	
10.	26.01	34.78			22.89	498.7	10.	26.01	34.78	22.89	498.7	0.050	
30.Δ	26.03	34.77			22.87	500.9	20.	26.00	34.78	22.89	499.0	0.101	
50.Δ	26.04	34.77			22.87	502.0	30.	26.03	34.77	22.87	500.9	0.151	
75.	26.06	34.76			22.86	504.3	50.	26.04	34.77	22.87	502.0	0.252	
100.	23.25	34.70			23.65	428.7	75.	26.06	34.76	22.86	504.3	0.379	
124.	21.04	34.82			24.37	361.6	100.	23.25	34.70	23.65	428.7	0.496	
149.	17.93	34.74			25.11	291.2	150.	17.77	34.72	25.13	288.8	0.677	
173.	14.64	34.38			25.59	245.4	200.	12.84	34.30	25.90	216.1	0.804	
188.	13.75	34.37			25.77	228.4	250.	10.18	34.21	26.32	176.4	0.903	
220.	11.39	34.18			26.09	198.5	300.	9.40	34.37	26.58	152.6	0.986	
247.	10.27	34.20			26.30	178.3	400.	8.38	34.50	26.85	128.6	1.128	
272.	9.68	34.26			26.45	164.6	500.	7.44	34.51	26.99	115.8	1.251	
297.	9.43	34.36			26.57	153.7	600.	6.73	34.50	27.08	107.9	1.364	
394.	8.44	34.50			26.84	129.6	700.	6.06	34.50	27.17	100.2	1.470	
495.	7.48	34.51			26.99	116.2	800.	5.52	34.50	27.24	94.0	1.568	
593.	6.78	34.50			27.08	108.5	1000.	4.96	34.52	27.32	87.5	1.751	
793.	5.54	34.50			27.24	94.2	1200.	4.13	34.55	27.44	76.4	1.917	
993.	5.00	34.52			27.32	87.9							
1191.	3.98	34.56			27.46	73.9							
1489.	3.17	34.59			27.56	64.0							

TEMPERATURE ERROR TERM AT 1200. METERS IS 0.13

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 5, STATION 12, 17-31N LAT, 154- 0W LONG, JUNE 21, 1964, 1500 G.C.T.													
DRY BULB 24.4		WET BULB 20.7		WIND SPEED 15, DIR. 02		8AR. 15		WEATHER 01		VIS. 7		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.73	34.70			22.91	495.8	0.	25.73	34.70	22.91	495.8	0.000	
10.	25.77	34.69			22.89	498.1	10.	25.77	34.69	22.89	498.1	0.050	
30.	25.70	34.69			22.91	496.8	20.	25.81	34.69	22.88	499.7	0.100	
50.	24.68	34.69			23.23	467.9	30.	25.70	34.69	22.91	496.8	0.150	
74.	25.03	34.60			23.05	485.4	50.	24.68	34.69	23.23	467.9	0.248	
98.	23.31	34.70			23.64	430.3	75.	24.97	34.60	23.07	483.7	0.368	
123.	22.23	34.98			24.16	381.5	100.	23.21	34.72	23.68	426.0	0.482	
149.	21.27	35.14			24.55	345.4	150.	21.19	35.14	24.57	343.6	0.676	
173.	19.26	34.98			24.96	306.7	200.	17.65	34.77	25.20	283.8	0.834	
188.	18.48	34.89			25.09	294.7	250.	12.10	34.20	25.97	211.0	0.959	
220.	15.80	34.54			25.46	259.7	300.	10.16	34.32	26.41	168.9	1.055	
247.	12.27	34.20			25.94	213.8	400.	8.41	34.43	26.79	134.4	1.208	
272.	11.32	34.25			26.15	193.4	500.	7.17	34.44	26.98	116.9	1.335	
296.	10.28	34.31			26.39	171.4	600.	6.47	34.46	27.09	107.1	1.448	
395.	8.49	34.43			26.77	135.6	700.	5.82	34.48	27.19	98.2	1.551	
494.	7.22	34.44			26.97	117.6	800.	5.26	34.50	27.27	90.5	1.647	
594.	6.51	34.46			27.08	107.7	1000.	4.44	34.54	27.40	79.3	1.819	
792.	5.30	34.50			27.27	91.1	1200.	3.79	34.57	27.48	71.1	1.971	
992.	4.47	34.54			27.39	79.7							
1190.	3.85	34.56			27.47	72.3							
1489.	3.03	34.60			27.59	61.5							

CROMWELL 5, STATION 13, 18-58N LAT, 153-58W LONG, JUNE 21, 1964, 2300 G.C.T.													
DRY BULB 25.2		WET BULB 22.3		WIND SPEED 16, DIR. 04		8AR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.41	34.65			22.97	490.0	0.	25.41	34.65	22.97	490.0	0.000	
9.	25.35	34.64			22.98	489.3	10.	25.35	34.64	22.98	489.4	0.049	
30. Δ	25.20	34.64			23.03	485.7	20.	25.30	34.63	22.99	489.1	0.099	
48.	24.70	34.76			23.27	463.3	30.	25.20	34.64	23.03	485.7	0.148	
73.	23.55	34.83			23.67	426.6	50.	24.61	34.77	23.30	460.3	0.243	
96.	23.00	34.95			23.92	403.6	75.	23.50	34.84	23.69	424.5	0.354	
119.	21.97	34.93			24.19	378.0	100.	22.83	34.94	23.96	399.5	0.458	
144.	21.18	35.15			24.58	342.1	150.	20.82	35.13	24.66	334.7	0.643	
167.	19.84	35.02			24.84	318.0	200.	18.51	34.91	25.09	294.4	0.802	
181.	19.45	35.00			24.92	310.2	250.	14.60	34.41	25.62	244.6	0.938	
212.	17.75	34.82			25.21	283.3	300.	11.40	34.23	26.13	196.6	1.049	
236.	15.89	34.56			25.45	260.8	400.	8.48	34.23	26.62	150.4	1.224	
259.	13.65	34.31			25.75	232.7	500.	6.67	34.23	26.88	125.6	1.363	
282.	12.21	34.25			25.99	209.9	600.	5.82	34.31	27.05	109.3	1.482	
374.	9.15	34.24			26.52	159.5	700.	5.34	34.39	27.18	98.3	1.587	
467.	7.12	34.21			26.80	132.8	800.	4.90	34.46	27.28	89.3	1.682	
560.	6.08	34.28			27.00	114.7	1000.	4.04	34.51	27.42	76.4	1.849	
749.	5.18	34.43			27.22	94.2	1200.	3.49	34.55	27.50	68.7	1.996	
934.	4.23	34.50			27.39	79.1							
1120.	3.79	34.53			27.46	73.2							
1404.	3.14	34.57			27.55	64.5							

CROMWELL 5, STATION 14, 20-30N LAT, 153-57W LONG, JUNE 22, 1964, 1000 G.C.T.													
DRY BULB 24.0		WET BULB 21.6		WIND SPEED 15, DIR. 04		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.00	34.84			23.24	464.3	0.	25.00	34.84	23.24	464.3	0.000	
10.	24.97	34.84			23.25	463.9	10.	24.97	34.84	23.25	463.9	0.047	
30.Δ	24.66	34.87			23.37	453.5	20.	24.89	34.85	23.28	461.5	0.093	
51.	23.44	35.02			23.84	409.0	30.	24.66	34.87	23.37	453.5	0.139	
76.	23.07	35.04			23.96	398.3	50.	23.50	35.01	23.82	411.2	0.227	
100.	22.64	35.09			24.13	383.8	75.	23.07	35.04	23.96	398.3	0.328	
125.	22.49	35.15			24.21	376.4	100.	22.64	35.09	24.13	383.8	0.427	
150.	21.64	35.16			24.46	353.7	150.	21.64	35.16	24.46	353.7	0.613	
174.	20.79	35.17			24.70	331.6	200.	19.40	35.01	24.94	309.1	0.780	
189.	20.07	35.08			24.82	320.2	250.	15.85	34.57	25.47	259.4	0.923	
224.	17.74	34.82			25.22	283.4	300.	11.91	34.20	26.00	208.4	1.041	
249.	15.93	34.58			25.46	260.5	400.	8.23	34.18	26.62	150.0	1.222	
276.	13.67	34.34			25.76	231.4	500.	7.64	34.38	26.86	128.3	1.362	
300.	11.91	34.20			26.00	208.4	600.	6.47	34.43	27.06	109.4	1.482	
399.	8.24	34.18			26.61	150.3	700.	5.84	34.47	27.17	99.4	1.588	
500.	7.64	34.38			26.86	128.3	800.	5.46	34.50	27.25	93.3	1.685	
601.	6.46	34.43			27.06	109.3	1000.	4.60	34.53	27.37	82.1	1.863	
803.	5.45	34.50			27.25	93.1	1200.	3.98	34.56	27.46	74.0	2.021	
1004.	4.58	34.53			27.37	81.9	1500.	3.13	34.60	27.58	62.9	2.229	
1204.	3.97	34.56			27.46	73.9							
1505.	3.12	34.60			27.58	62.7							

ΔFROM ST DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 5, STATION 15, 21-58N LAT, 153-59W LONG, JUNE 22, 1964, 1900 G.C.T.													
DRY BULB 24.6		WET BULB 21.7		WIND SPEED 18, DIR. 05		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.59	34.86			23.38	451.1	0.	24.59	34.86	23.38	451.1	0.000	
10.	24.57	34.88			23.40	449.4	10.	24.57	34.88	23.40	449.4	0.045	
30.Δ	24.46	34.88			23.43	447.1	20.	24.62	34.86	23.38	452.4	0.091	
49.	22.91	35.16			24.10	384.2	30.	24.46	34.88	23.43	447.1	0.136	
74.	22.60	35.18			24.20	375.2	50.	22.88	35.16	24.11	383.1	0.220	
99.	22.18	35.22			24.35	361.9	75.	22.59	35.18	24.21	374.8	0.315	
124.	21.60	35.24			24.53	345.9	100.	22.16	35.22	24.36	361.4	0.408	
149.	20.64	35.20			24.76	324.7	150.	20.62	35.20	24.77	324.2	0.581	
174.	19.97	35.15			24.90	312.1	200.	18.65	34.95	25.09	295.3	0.737	
189.	19.18	35.02			25.01	302.4	250.	15.43	34.55	25.55	251.9	0.875	
223.	17.42	34.79			25.27	278.1	300.	12.39	34.26	25.96	213.1	0.992	
249.	15.51	34.56			25.54	252.8	400.	9.23	34.12	26.41	170.3	1.185	
274.	13.57	34.32			25.77	230.8	500.	6.94	34.11	26.75	138.1	1.341	
299.	12.43	34.26			25.95	213.7	600.	5.42	34.17	26.99	114.6	1.469	
397.	9.31	34.12			26.40	171.4	700.	4.69	34.27	27.15	99.8	1.577	
498.	6.94	34.11			26.74	138.7	800.	4.37	34.36	27.26	89.8	1.673	
598.	5.44	34.17			26.99	115.0	1000.	3.91	34.48	27.40	77.3	1.842	
798.	4.38	34.36			27.26	90.0	1200.	3.47	34.54	27.49	69.3	1.990	
997.	3.92	34.48			27.40	77.4							
1197.	3.48	34.52			27.48	70.8							
1497.	2.83	34.58			27.59	60.6							

CROMWELL 5, STATION 16, 23-32N LAT, 153-52W LONG, JUNE 23, 1964, 0400 G.C.T.												
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 16, DIR. 03		BAR. 17		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 3
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.44	35.01			23.54	436.0	0.	24.44	35.01	23.54	436.0	0.000
10.	24.44	35.04			23.56	434.2	10.	24.44	35.04	23.56	434.2	0.044
30.Δ	24.28	35.05			23.62	429.7	20.	24.43	35.05	23.57	433.7	0.088
50.	23.21	35.08			23.95	398.3	30.	24.28	35.05	23.62	429.7	0.131
74.	22.74	35.17			24.16	379.8	50.	23.21	35.08	23.95	398.3	0.214
100.	22.07	35.24			24.40	357.6	75.	22.72	35.17	24.17	379.0	0.312
125.	21.14	35.20			24.63	336.8	100.	22.07	35.24	24.40	357.6	0.405
150.	20.14	35.12			24.84	317.7	150.	20.14	35.12	24.84	317.7	0.575
174.	18.83	34.98			25.07	296.2	200.	17.78	34.85	25.23	281.1	0.726
189.	18.38	34.92			25.14	290.2	250.	15.05	34.54	25.63	244.5	0.859
223.	16.36	34.70			25.45	260.5	300.	12.02	34.23	26.01	208.3	0.973
250.	15.05	34.54			25.63	244.5	400.	9.01	34.09	26.42	168.9	1.163
276.	12.90	34.30			25.89	219.2	500.	6.60	34.06	26.75	137.2	1.318
299.	12.05	34.23			26.00	208.8	600.	5.35	34.12	26.96	117.9	1.446
400.	9.01	34.09			26.42	168.9	700.	4.67	34.25	27.14	101.0	1.557
502.	6.56	34.06			26.76	136.6	800.	4.28	34.38	27.29	87.2	1.652
604.	5.32	34.12			26.96	117.2	1000.	3.77	34.51	27.44	73.5	1.815
813.	4.25	34.40			27.30	85.6	1200.	3.30	34.57	27.54	64.9	1.955
1004.	3.76	34.51			27.44	73.3						
1190.	3.32	34.56			27.53	65.9						
1474.	2.71	34.60			27.61	57.6						

CROMWELL 5, STATION 17, 23-28N LAT, 150-58W LONG, JUNE 23, 1964, 2300 G.C.T.												
DRY BULB 22.8		WET BULB 20.5		WIND SPEED 17, DIR. 09		BAR. 17		WEATHER 52		VIS. 7		CLOUD TYPE 9, COVER 6
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	24.14	35.12			23.71	419.5	0.	24.14	35.12	23.71	419.5	0.000
9.	24.10	35.12			23.72	418.7	10.	24.12	35.12	23.72	419.5	0.042
30.Δ	24.04	35.12			23.74	417.8	20.	24.21	35.11	23.68	422.8	0.085
44.	22.74	35.20			24.18	376.5	30.	24.04	35.12	23.74	417.8	0.127
68.	21.98	35.27			24.45	351.8	50.	22.47	35.22	24.28	367.5	0.206
90.	21.23	35.27			24.66	332.8	75.	21.73	35.27	24.52	345.1	0.296
111.	20.76	35.26			24.78	322.1	100.	21.03	35.28	24.72	327.5	0.381
133.	19.66	35.09			24.94	307.2	150.	18.83	34.98	25.06	295.6	0.538
156.	18.54	34.94			25.11	291.5	200.	16.64	34.71	25.40	265.1	0.679
169.	17.88	34.86			25.21	282.0	250.	13.39	34.33	25.81	226.0	0.803
199.	16.69	34.72			25.39	265.7	300.	11.42	34.18	26.08	200.8	0.910
227.	15.10	34.53			25.61	245.6	400.	8.83	34.06	26.43	168.2	1.096
246.	13.61	34.35			25.79	228.6	500.	6.74	34.04	26.72	140.4	1.252
269.	12.54	34.26			25.93	215.0	600.	5.36	34.13	26.97	116.8	1.382
359.	9.79	34.10			26.31	180.0	700.	4.76	34.27	27.15	99.9	1.492
450.	7.80	34.04			26.57	154.9	800.	4.38	34.38	27.27	88.6	1.587
540.	6.00	34.06			26.83	129.6	1000.	3.83	34.49	27.42	75.6	1.753
723.	4.70	34.31			27.18	96.8	1200.	3.37	34.55	27.52	67.1	1.898
909.	4.06	34.45			27.36	80.5						
1095.	3.63	34.52			27.46	71.8						
1383.	3.04	34.56			27.55	63.9						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 5, STATION 1R, 22- 2N LAT, 150-59W LONG, JUNE 24, 1964, 0800 G.C.T.													
DRY BULB 23.0		WET BULB 20.1		WIND SPEED 14, DIR. 06		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.41	34.78			23.37	451.7	0.	24.41	34.78	23.37	451.7	0.000	
10.	24.40	34.79			23.38	451.1	10.	24.40	34.79	23.38	451.1	0.045	
52.	23.47	34.90			23.74	418.6	20.	24.30	34.80	23.42	448.1	0.091	
77.	22.30	35.10			24.23	373.0	30.	24.13	34.82	23.49	442.1	0.136	
103.	21.96	35.19			24.39	358.4	50.	23.55	34.89	23.71	421.3	0.223	
128.	21.24	35.14			24.55	341.8	75.	22.39	35.08	24.19	376.4	0.323	
154.	19.97	35.06			24.83	317.9	100.	21.99	35.19	24.38	359.2	0.416	
179.	19.07	35.02			25.04	299.3	150.	20.17	35.07	24.79	322.0	0.587	
194.	18.46	34.92			25.12	292.3	200.	18.21	34.89	25.15	288.8	0.741	
229.	16.64	34.70			25.39	267.0	250.	14.94	34.48	25.61	246.3	0.876	
256.	14.44	34.42			25.66	240.6	300.	11.97	34.17	25.97	211.4	0.992	
281.	12.81	34.24			25.86	221.9	400.	8.80	34.09	26.46	165.8	1.182	
306.	11.74	34.16			26.01	208.3	500.	6.55	34.08	26.77	135.3	1.334	
408.	6.61	34.09			26.49	162.7	600.	5.44	34.20	27.01	112.8	1.459	
511.	6.36	34.08			26.80	132.6	700.	5.00	34.33	27.17	98.8	1.566	
612.	5.37	34.22			27.04	110.6	800.	4.79	34.43	27.27	90.0	1.661	
815.	4.78	34.44			27.28	89.1	1000.	4.21	34.50	27.39	79.6	1.833	
1018.	4.16	34.50			27.39	79.0	1200.	3.65	34.54	27.47	71.7	1.986	
1220.	3.60	34.54			27.48	70.9	1500.	2.88	34.59	27.59	60.7	2.188	
1522.	2.83	34.59			27.60	60.0							

CROMWELL 5, STATION 1R, 20-32N LAT, 150-56W LONG, JUNE 24, 1964, 1700 G.C.T.														
DRY BULB 24.2		WET BULB 21.3		WIND SPEED 15, DIR. 09		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	24.35	34.66			23.30	458.6	0.	24.35	34.66	23.30	458.6	0.000		
10.	24.34	34.66			23.31	458.4	10.	24.33	34.66	23.31	458.4	0.046		
30.Δ	24.28	34.68			23.34	456.4	20.	24.30	34.67	23.32	457.3	0.092		
51.	24.29	34.67			23.33	458.2	30.	24.28	34.68	23.34	456.4	0.136		
75.	23.60	34.68			23.54	438.9	50.	24.30	34.67	23.33	458.3	0.230		
100.	22.31	34.67			23.90	405.2	75.	23.60	34.68	23.54	438.9	0.343		
125.	21.92	34.90			24.18	379.0	100.	22.31	34.67	23.90	405.2	0.450		
150.	20.51	34.88			24.55	344.5	150.	20.51	34.88	24.55	344.5	0.639		
174.	19.00	34.86			24.93	309.0	200.	17.71	34.77	25.19	285.5	0.797		
188.	18.53	34.86			25.05	298.1	250.	13.64	34.30	25.74	233.1	0.928		
220.	16.02	34.56			25.42	263.1	300.	11.15	34.16	26.12	197.3	1.037		
246.	13.90	34.32			25.70	236.6	400.	7.94	34.17	26.65	146.7	1.210		
271.	12.45	34.22			25.92	216.3	500.	6.77	34.24	26.87	126.3	1.348		
295.	11.37	34.17			26.08	200.7	600.	5.40	34.24	27.05	109.1	1.467		
391.	8.08	34.16			26.62	149.2	700.	5.03	34.35	27.17	98.0	1.571		
488.	6.97	34.24			26.85	128.8	800.	4.93	34.45	27.27	90.0	1.667		
586.	5.48	34.23			27.03	110.9	1000.	4.14	34.51	27.40	78.2	1.837		
778.	5.02	34.44			27.25	91.7	1200.	3.55	34.54	27.49	70.2	1.987		
973.	4.23	34.50			27.39	79.4								
1168.	3.64	34.53			27.47	71.7								
1463.	3.03	34.56			27.55	64.3								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.14

CROMWELL 5, STATION 20, 19-1N LAT, 151-2W LONG, JUNE 25, 1964, 0200 G.C.T.														
DRY BULB 24.8		WET BULB 21.6		WIND SPEED 15, DIR. 11		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	24.93	34.76			23.20	468.1	0.	24.93	34.76	23.20	468.1	0.000		
8.	24.90	34.76			23.21	467.5	10.	24.93	34.75	23.20	468.9	0.047		
30.Δ	24.78	34.77			23.26	464.2	20.	24.96	34.74	23.18	470.9	0.095		
45.	23.56	34.96			23.76	416.5	30.	24.78	34.77	23.26	464.2	0.142		
70.	22.81	35.08			24.07	388.0	50.	23.33	35.00	23.86	407.6	0.229		
93.	22.43	35.11			24.20	376.4	75.	22.73	35.09	24.10	385.3	0.329		
115.	21.69	35.12			24.42	356.7	100.	22.23	35.12	24.26	370.8	0.425		
139.	20.61	35.10			24.69	330.8	150.	20.04	35.07	24.82	318.9	0.598		
162.	19.41	35.02			24.95	307.1	200.	17.10	34.72	25.30	274.9	0.748		
175.	18.74	34.94			25.06	296.9	250.	13.20	34.25	25.79	227.8	0.875		
208.	16.49	34.64			25.38	267.3	300.	9.85	34.10	26.30	179.5	0.977		
233.	14.37	34.36			25.63	242.9	400.	7.99	34.22	26.68	143.9	1.141		
257.	12.71	34.22			25.87	220.9	500.	6.40	34.29	26.96	117.1	1.272		
279.	10.78	34.12			26.15	193.6	600.	5.70	34.39	27.13	102.3	1.383		
374.	8.57	34.20			26.58	153.4	700.	5.13	34.44	27.24	92.1	1.481		
468.	6.73	34.26			26.89	123.7	800.	4.69	34.48	27.32	85.3	1.571		
563.	5.95	34.36			27.07	107.1	1000.	4.08	34.53	27.42	75.8	1.734		
752.	4.89	34.46			27.28	88.3	1200.	3.56	34.56	27.51	68.5	1.880		
941.	4.23	34.51			27.39	78.4								
1130.	3.78	34.56			27.48	70.9								
1420.	3.07	34.58			27.57	63.0								

TEMPERATURE ERROR TERM AT 300. METERS IS 0.28

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL 5, STATION 21, 17-31N LAT, 150-57W LONG, JUNE 25, 1964, 1200 G.C.T.													
DRY BULB 24.5		WET BULB 21.8		WIND SPEED 17, DIR. 09		BAR. 14		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.63	34.64			23.20	468.1	0.	24.63	34.64	23.20	468.1	0.000	
10.	24.65	34.64			23.20	469.0	10.	24.65	34.64	23.20	469.0	0.047	
30. Δ	24.64	34.64			23.20	469.5	20.	24.65	34.64	23.20	469.4	0.094	
50. Δ	24.64	34.64			23.20	470.3	30.	24.64	34.64	23.20	469.5	0.142	
78.	23.87	34.67			23.45	447.3	50.	24.64	34.64	23.20	470.3	0.236	
102.	22.99	34.90			23.88	407.2	75.	23.98	34.66	23.41	451.1	0.352	
127.	22.51	35.07			24.15	382.7	100.	23.06	34.88	23.84	410.6	0.461	
152.	20.67	34.92			24.54	345.8	150.	20.84	34.93	24.51	348.9	0.652	
177.	19.20	34.94			24.94	308.2	200.	16.54	34.56	25.30	274.2	0.809	
192.	17.55	34.68			25.16	288.1	250.	11.26	34.20	26.13	195.4	0.928	
225.	13.50	34.28			25.75	231.0	300.	9.34	34.15	26.42	168.0	1.019	
252.	11.12	34.20			26.15	193.0	400.	7.82	34.25	26.73	138.7	1.174	
278.	10.12	34.21			26.33	175.7	500.	6.33	34.26	26.95	118.6	1.304	
302.	9.27	34.14			26.42	167.4	600.	5.62	34.31	27.08	106.6	1.418	
403.	7.80	34.26			26.74	137.9	700.	5.30	34.40	27.18	97.5	1.521	
505.	6.26	34.26			26.96	117.8	800.	5.09	34.47	27.27	90.4	1.616	
607.	5.59	34.32			27.09	105.9	1000.	4.42	34.52	27.38	80.6	1.789	
809.	5.08	34.48			27.28	89.9	1200.	3.79	34.54	27.46	73.1	1.945	
1012.	4.38	34.52			27.39	80.2	1500.	3.02	34.58	27.57	63.1	2.152	
1212.	3.75	34.54			27.47	72.7							
1515.	2.99	34.58			27.57	62.7							

CROMWELL 5, STATION 22, 15-59N LAT, 151- 3W LONG, JUNE 25, 1964, 2100 G.C.T. DRY BULB 25.8 WET BULB 22.8 WIND SPEED 22, DIR. 07 BAR. 14 WEATHER 02 VIS. 7 CLOUD TYPE 4, COVER 5												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	25.14	34.70			23.09	478.5	0.	25.14	34.70	23.09	478.5	0.000
10.	25.12	34.70			23.10	478.3	10.	25.12	34.70	23.10	478.3	0.048
30.Δ	25.02	34.70			23.13	476.2	20.	25.19	34.70	23.08	480.9	0.096
48.	23.38	34.74			23.65	427.4	30.	25.02	34.70	23.13	476.2	0.145
73.	22.46	35.03			24.13	382.2	50.	23.27	34.76	23.69	423.0	0.235
98.	21.76	35.12			24.40	357.9	75.	22.40	35.04	24.16	379.8	0.336
121.	21.35	35.22			24.58	340.7	100.	21.73	35.13	24.41	356.4	0.429
147.	19.98	35.08			24.85	316.5	150.	19.81	35.06	24.88	313.5	0.598
169.	18.20	34.88			25.15	288.1	200.	13.86	34.34	25.72	233.5	0.736
183.	16.04	34.58			25.43	260.9	250.	10.67	34.26	26.28	180.6	0.840
217.	12.23	34.21			25.95	211.6	300.	10.06	34.48	26.56	155.1	0.925
243.	10.93	34.23			26.21	187.3	400.	8.96	34.54	26.78	135.1	1.071
268.	10.21	34.36			26.44	165.9	500.	7.60	34.49	26.95	119.9	1.200
291.	10.12	34.46			26.53	157.6	600.	6.59	34.47	27.08	108.1	1.315
389.	9.11	34.54			26.76	137.1	700.	5.88	34.48	27.18	99.3	1.420
487.	7.76	34.49			26.93	121.7	800.	5.32	34.49	27.26	91.9	1.517
584.	6.72	34.47			27.06	109.7	1000.	4.35	34.53	27.39	79.3	1.690
778.	5.45	34.49			27.24	93.6	1200.	3.68	34.56	27.49	70.4	1.841
975.	4.44	34.52			27.38	80.6						
1170.	3.83	34.56			27.48	71.9						
1468.	3.11	34.59			27.57	63.1						

CROMWELL 5, STATION 23, 14-28N LAT, 151- 3W LONG, JUNE 26, 1964, 0600 G.C.T.													
DRY BULB 25.6		WET BULB 22.8		WIND SPEED 21, DIR. 07		BAR. 13		WEATHER 01		VIS. 7		CLOUD TYPE 3, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.29	34.61			22.98	489.3	0.	25.29	34.61	22.98	489.3	0.000	
8.	25.27	34.60			22.98	489.8	10.	25.31	34.60	22.96	491.4	0.049	
30.Δ	25.20	34.60			23.00	488.6	20.	25.37	34.59	22.94	494.2	0.099	
47.	23.58	34.70			23.56	435.8	30.	25.20	34.60	23.00	488.6	0.149	
73.	22.53	35.00			24.09	386.3	50.	23.40	34.74	23.64	428.4	0.241	
98.	21.97	35.07			24.30	367.1	75.	22.49	35.01	24.11	384.6	0.343	
123.	20.84	35.16			24.68	331.8	100.	21.91	35.08	24.33	364.6	0.438	
148.	18.78	34.94			25.05	297.0	150.	18.63	34.92	25.07	294.8	0.604	
172.	16.54	34.64			25.37	267.3	200.	13.01	34.29	25.86	220.4	0.734	
186.	14.48	34.38			25.63	242.4	250.	11.03	34.51	26.41	168.4	0.832	
220.	11.72	34.32			26.13	194.2	300.	9.80	34.52	26.63	148.1	0.912	
246.	11.14	34.50			26.38	171.2	400.	8.43	34.52	26.85	128.2	1.051	
271.	10.45	34.54			26.53	156.8	500.	7.44	34.52	27.00	115.1	1.174	
295.	9.89	34.52			26.62	149.4	600.	6.60	34.52	27.12	104.6	1.285	
395.	8.49	34.52			26.84	128.9	700.	5.90	34.52	27.21	96.2	1.386	
495.	7.49	34.52			26.99	115.7	800.	5.33	34.53	27.29	89.2	1.460	
594.	6.65	34.52			27.11	105.2	1000.	4.47	34.56	27.41	78.3	1.649	
791.	5.37	34.53			27.28	89.7	1200.	3.75	34.57	27.49	70.2	1.800	
988.	4.52	34.56			27.40	78.8							
1186.	3.80	34.56			27.48	71.6							
1482.	2.98	34.61			27.60	60.1							

APRON BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
5, STATION 24, 13- ON LAT, 150-57W LONG, JUNE 26, 1964, 1500 G.C.T.													
CROMWELL DRY BULB 25.3		WET BULB 22.6		WIND SPEED 22, DIR. 07		BAR. 11		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.29	34.78			22.60	506.7	0.	26.29	34.78	22.80	506.7	0.000	
8.	26.31	34.78			22.79	507.6	10.	26.31	34.78	22.79	507.7	0.051	
30.Δ	26.30	34.78			22.80	508.2	20.	26.31	34.78	22.79	508.2	0.102	
50.Δ	26.26	34.78			22.81	507.8	30.	26.30	34.78	22.80	508.2	0.153	
72.	25.76	34.74			22.93	496.7	50.	26.26	34.78	22.81	507.8	0.256	
97.	22.64	34.88			23.97	398.8	75.	25.43	34.76	23.05	485.9	0.381	
120.	20.74	34.86			24.48	350.8	100.	22.39	34.88	24.04	391.9	0.492	
144.	17.88	34.74			25.12	289.9	150.	17.00	34.65	25.26	276.4	0.660	
168.	14.38	34.39			25.65	239.1	200.	11.00	34.20	26.17	189.8	0.777	
182.	12.71	34.34			25.96	210.2	250.	10.31	34.48	26.51	158.8	0.865	
215.	10.14	34.14			26.28	179.8	300.	9.36	34.49	26.68	143.2	0.941	
241.	10.24	34.41			26.47	162.2	400.	8.42	34.56	26.88	125.1	1.077	
266.	10.29	34.54			26.56	154.0	500.	7.45	34.54	27.01	114.0	1.197	
289.	9.56	34.49			26.65	146.1	600.	6.65	34.52	27.11	105.4	1.308	
387.	8.56	34.56			26.86	126.9	700.	5.91	34.52	27.20	96.9	1.410	
484.	7.59	34.54			26.99	115.5	800.	5.28	34.52	27.29	89.3	1.504	
580.	6.81	34.52			27.09	107.2	1000.	4.38	34.54	27.40	78.4	1.674	
775.	5.42	34.52			27.27	90.9	1200.	3.70	34.57	27.49	70.2	1.825	
969.	4.50	34.54			27.39	79.8							
1164.	3.85	34.56			27.47	72.0							
1460.	3.07	34.60			27.58	61.8							

5, STATION 25, 11-30N LAT, 151- 0W LONG, JUNE 26, 1964, 2400 G.C.T.														
CROMWELL DRY BULB 26.4		WET BULB 22.9		WIND SPEED 19, DIR. 06		BAR. 12		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	26.36	34.42			22.51	534.7	0.	26.36	34.42	22.51	534.7	0.000		
10.Δ	26.34	34.42			22.51	534.5	10.	26.34	34.42	22.51	534.5	0.054		
30.Δ	26.20	34.42			22.56	531.1	20.	26.28	34.42	22.53	533.3	0.108		
50.Δ	26.00	34.44			22.63	524.5	30.	26.20	34.42	22.56	531.1	0.161		
77.	23.00	34.76			23.77	416.6	50.	26.00	34.44	22.63	524.5	0.268		
102.	17.88	34.72			25.11	289.9	75.	23.32	34.74	23.66	427.0	0.387		
128.	13.10	34.28			25.83	220.7	100.	18.32	34.74	25.01	299.1	0.479		
153.	11.72	34.58			26.34	173.5	150.	11.77	34.53	26.29	178.1	0.599		
178.	11.51	34.75			26.51	157.8	200.	11.06	34.75	26.59	150.4	0.682		
193.	11.17	34.75			26.57	152.1	250.	10.48	34.72	26.67	143.4	0.756		
227.	10.73	34.74			26.64	146.0	300.	10.03	34.71	26.74	137.6	0.827		
255.	10.43	34.72			26.68	142.9	400.	9.21	34.67	26.85	129.1	0.961		
280.	10.21	34.72			26.72	139.7	500.	8.25	34.63	26.96	119.4	1.087		
306.	9.97	34.71			26.75	137.0	600.	7.31	34.57	27.06	111.2	1.203		
407.	9.15	34.67			26.86	128.5	700.	6.43	34.54	27.16	102.0	1.311		
510.	8.15	34.62			26.97	118.4	800.	5.65	34.54	27.25	93.0	1.410		
613.	7.19	34.56			27.07	110.2	1000.	4.58	34.56	27.39	79.9	1.584		
816.	5.54	34.54			27.27	91.5	1200.	3.86	34.58	27.49	71.1	1.737		
1016.	4.52	34.56			27.40	79.0	1500.	3.04	34.60	27.58	61.8	1.939		
1215.	3.81	34.58			27.49	70.5								
1517.	3.01	34.60			27.59	61.5								

5, STATION 26, 10- 4N LAT, 148- 3W LONG, JUNE 27, 1964, 1900 G.C.T.														
CROMWELL DRY BULB 25.8		WET BULB 23.9		WIND SPEED 14, DIR. 04		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 6		
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	26.85	34.01			22.04	579.0	0.	26.85	34.01	22.04	579.0	0.000		
10.	26.76	34.01			22.07	576.7	10.	26.76	34.01	22.07	576.7	0.058		
30.Δ	26.60	34.02			22.13	571.9	20.	26.74	33.98	22.06	578.3	0.116		
49.	25.55	34.48			22.80	508.3	30.	26.60	34.02	22.13	571.9	0.174		
59.	21.67	34.53			23.97	396.7	50.	25.27	34.49	22.90	499.0	0.282		
68.	16.22	34.36			25.22	277.4	75.	15.06	34.38	25.50	251.1	0.377		
78.	14.93	34.42			25.56	245.7	100.	12.71	34.67	26.21	183.8	0.431		
88.	13.52	34.58			25.98	205.8	150.	11.53	34.75	26.50	157.6	0.517		
98.	12.77	34.66			26.19	185.7	200.	10.84	34.73	26.61	148.0	0.594		
108.	12.56	34.70			26.27	179.1	250.	10.43	34.72	26.68	142.9	0.666		
147.	11.59	34.75			26.49	158.5	300.	10.04	34.69	26.72	139.6	0.739		
196.	10.88	34.73			26.61	148.6	400.	9.35	34.68	26.83	131.0	0.876		
246.	10.46	34.72			26.67	143.2	500.	8.48	34.64	26.94	122.0	1.003		
296.	10.07	34.69			26.72	139.9	600.	7.14	34.58	27.09	107.9	1.119		
396.	9.38	34.68			26.83	131.3	700.	6.22	34.56	27.20	97.9	1.223		
496.	8.53	34.64			26.93	122.6	800.	5.56	34.56	27.28	90.2	1.319		
592.	7.22	34.58			27.08	108.9	1000.	4.53	34.57	27.41	78.3	1.489		
791.	5.62	34.56			27.27	90.8	1200.	3.77	34.58	27.50	69.6	1.639		
989.	4.58	34.57			27.40	78.8								
1186.	3.85	34.58			27.49	70.8								
1487.	3.02	34.62			27.60	59.9								

TEMPERATURE ERROR TERM AT 75. METERS IS 0.18

ΔFROM 8T DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 5, STATION 27, 11-32N LAT, 148- 3W LONG, JUNE 28, 1964, 0600 G.C.T.													
DRY BULB 26.8		WET BULB 24.2		WIND SPEED 17, DIR. 11		BAR. 13		WEATHER 00		VIS. 8		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	26.73	34.03			22.10	573.9	0.	26.73	34.03	22.10	573.9	0.000	
10.	26.71	34.04			22.11	573.0	10.	26.71	34.04	22.11	573.0	0.058	
30.Δ	26.60	34.06			22.16	569.0	20.	26.60	34.03	22.11	573.1	0.115	
49.	26.15	34.33			22.50	536.8	30.	26.60	34.06	22.16	569.0	0.173	
59.	25.35	34.44			22.83	505.7	50.	26.07	34.34	22.54	533.4	0.284	
69.	25.16	34.45			22.90	499.8	75.	23.77	34.41	23.28	463.1	0.410	
79.	22.46	34.40			23.65	427.9	100.	15.18	34.39	25.48	254.1	0.500	
88.	18.90	34.54			24.71	326.8	150.	11.83	34.76	26.46	161.9	0.605	
98.	15.58	34.38			25.3P	263.0	200.	10.93	34.75	26.61	148.0	0.683	
108.	14.03	34.46			25.78	225.2	250.	10.38	34.74	26.70	140.5	0.756	
148.	11.89	34.76			26.44	163.3	300.	9.87	34.72	26.77	134.5	0.825	
199.	10.94	34.75			26.61	148.2	400.	9.03	34.67	26.87	126.6	0.957	
248.	10.40	34.74			26.70	140.8	500.	8.10	34.62	26.98	117.6	1.080	
299.	9.86	34.72			26.77	134.6	600.	7.13	34.57	27.08	108.4	1.194	
397.	9.06	34.67			26.87	126.9	700.	6.29	34.55	27.18	99.5	1.299	
497.	8.13	34.62			26.98	117.9	800.	5.58	34.55	27.27	91.1	1.396	
595.	7.17	34.57			27.08	108.9	1000.	4.48	34.57	27.42	77.6	1.566	
794.	5.62	34.55			27.27	91.6	1200.	3.79	34.59	27.50	69.4	1.715	
994.	4.50	34.57			27.41	77.8							
1192.	3.90	34.59			27.49	70.7							
1493.	3.19	34.61			27.58	62.8							

CROMWELL 5, STATION 29, 12-57N LAT, 147-58W LONG, JUNE 28, 1964, 1600 G.C.T.												
DRY BULB 25.3		WET BULB 23.7		WIND SPEED 22, DIR. 09		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	25.95	34.48			22.68	518.1	0.	25.95	34.48	22.68	518.1	0.000
10.	25.94	34.48			22.68	518.2	10.	25.94	34.48	22.68	518.2	0.052
49.	25.01	34.45			22.94	494.6	20.	25.76	34.48	22.73	513.8	0.104
59.	24.79	34.44			23.00	489.4	30.	25.54	34.47	22.80	508.2	0.156
68.	24.33	34.40			23.11	479.4	50.	24.99	34.45	22.95	494.3	0.257
78.	24.14	34.40			23.17	474.4	75.	24.20	34.40	23.15	475.9	0.379
87.	23.64	34.34			23.27	465.0	100.	20.02	34.69	24.54	344.0	0.482
97.	20.31	34.64			24.43	354.9	150.	12.98	34.31	25.88	216.6	0.623
107.	19.75	34.76			24.66	332.4	200.	11.45	34.62	26.41	167.1	0.720
146.	13.27	34.30			25.82	223.0	250.	10.80	34.69	26.59	151.7	0.800
194.	11.57	34.60			26.38	170.3	300.	10.27	34.72	26.70	141.4	0.874
243.	10.83	34.68			26.57	153.4	400.	9.00	34.70	26.90	124.1	1.008
291.	10.38	34.71			26.68	143.6	500.	7.91	34.52	26.93	122.2	1.132
388.	9.13	34.72			26.50	124.2	600.	6.83	34.54	27.10	106.2	1.248
486.	8.07	34.52			26.91	124.1	700.	6.03	34.54	27.21	96.5	1.350
583.	6.98	34.54			27.08	108.2	800.	5.43	34.54	27.28	89.7	1.444
780.	5.54	34.54			27.27	91.1	1000.	4.49	34.56	27.41	78.3	1.614
977.	4.58	34.56			27.40	79.4	1200.	3.79	34.58	27.50	69.8	1.764
1175.	3.88	34.58			27.49	71.0						
1470.	3.14	34.62			27.59	61.8						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.11

CROMWELL 5, STATION 29, 14-32N LAT, 148-0W LONG, JUNE 29, 1964, 0200 G.C.T.													
DRY BULB 25.5		WET BULB 23.3		WIND SPEED 19, DIR. 06		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	25.27	34.48			22.89	498.1	0.	25.27	34.48	22.89	498.1	0.000	
10.	25.24	34.48			22.90	497.6	10.	25.24	34.48	22.90	497.6	0.050	
51.	25.06	34.47			22.94	494.7	20.	25.20	34.47	22.90	497.5	0.100	
76.	24.93	34.53			23.03	487.6	30.	25.16	34.47	22.91	497.0	0.150	
101.	22.52	34.88			24.00	395.7	50.	25.07	34.47	22.94	494.9	0.250	
125.	19.42	34.72			24.72	327.8	75.	24.96	34.52	23.02	488.8	0.374	
151.	15.65	34.50			25.46	257.3	100.	22.65	34.87	23.96	400.0	0.486	
176.	12.72	34.26			25.89	216.1	150.	15.79	34.51	25.44	259.7	0.652	
191.	11.69	34.21			26.05	201.0	200.	11.33	34.24	26.14	192.8	0.766	
224.	10.77	34.38			26.35	173.1	250.	10.34	34.52	26.53	156.4	0.854	
251.	10.33	34.52			26.54	155.8	300.	9.68	34.58	26.70	141.7	0.930	
276.	9.95	34.56			26.64	147.0	400.	8.89	34.62	26.86	127.8	1.065	
301.	9.67	34.58			26.70	141.5	500.	7.61	34.52	26.98	117.5	1.189	
402.	8.87	34.62			26.86	127.6	600.	6.74	34.51	27.09	107.2	1.303	
501.	7.60	34.52			26.98	117.4	700.	6.06	34.51	27.18	99.4	1.407	
601.	6.73	34.51			27.09	107.1	800.	5.49	34.51	27.25	92.9	1.504	
800.	5.49	34.51			27.25	92.9	1000.	4.48	34.53	27.38	80.6	1.680	
1000.	4.48	34.53			27.38	80.6	1200.	3.78	34.56	27.48	71.9	1.834	
1198.	3.84	34.56			27.47	72.2							
1498.	3.11	34.58			27.56	64.0							

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 5, STATION 30, 16- ON LAT, 147-58W LONG, JUNE 29, 1964, 1200 G.C.T.													
DRY BULB 24.3		WET BULB 22.2		WIND SPEED 19, DIR. 04		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0-	25.15	34.62			23.03	484.5	0.	25.15	34.62	23.03	484.5	0.000	
10-	25.16	34.62			23.03	485.2	10.	25.16	34.62	23.03	485.2	0.049	
30- ^Δ	25.15	34.62			23.03	485.7	20.	25.16	34.62	23.03	485.5	0.098	
50- ^Δ	25.15	34.62			23.03	486.5	30.	25.15	34.62	23.03	485.7	0.147	
75-	25.12	34.62			23.04	486.6	50.	25.15	34.62	23.03	486.5	0.245	
98.	23.09	34.77			23.75	419.1	75.	25.12	34.62	23.04	486.6	0.367	
121.	21.65	34.96			24.30	367.4	100.	22.94	34.79	23.81	413.9	0.481	
146.	20.69	35.05			24.64	336.7	150.	20.36	35.03	24.71	330.0	0.668	
170.	18.20	34.79			25.08	294.7	200.	14.67	34.38	25.58	247.0	0.813	
184.	16.37	34.54			25.33	271.2	250.	11.51	34.30	26.16	192.5	0.924	
217.	13.27	34.30			25.82	224.8	300.	9.61	34.34	26.53	157.9	1.013	
243.	11.81	34.28			26.09	199.3	400.	8.45	34.46	26.81	132.5	1.159	
269.	10.77	34.36			26.34	175.5	500.	7.46	34.48	26.97	118.3	1.286	
293.	9.78	34.34			26.49	160.8	600.	6.95	34.48	27.03	112.7	1.402	
390.	8.57	34.46			26.78	134.5	700.	6.28	34.49	27.13	104.0	1.512	
489.	7.51	34.48			26.96	118.8	800.	5.17	34.52	27.30	87.8	1.609	
682.	6.50	34.48			27.10	107.3	1000.	4.32	34.54	27.41	77.5	1.776	
781.	5.31	34.52			27.28	89.6	1200.	3.66	34.58	27.51	68.7	1.924	
977.	4.40	34.54			27.40	78.6							
1176.	3.78	34.58			27.50	69.8							
1467.	3.00	34.62			27.60	59.5							

TEMPERATURE ERROR TERM AT 600. METERS IS 0.13

CROMWELL 5, STATION 31, 17-28N LAT, 147-57W LONG, JUNE 29, 1964, 2100 G.C.T.														
DRY BULB 25.3		WET BULB 22.8		WIND SPEED 21, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	25.44	34.78			23.06	481.5	0.	25.44	34.78	23.06	481.5	0.000		
10.	25.41	34.78			23.07	481.0	10.	25.41	34.78	23.07	481.0	0.048		
30.Δ	25.18	34.78			23.14	475.1	20.	25.31	34.78	23.10	478.4	0.097		
51.	24.95	34.78			23.21	469.2	30.	25.18	34.78	23.14	475.1	0.145		
77.	22.72	35.00			24.03	391.6	50.	24.98	34.78	23.20	470.1	0.240		
101.	22.05	35.13			24.32	365.0	75.	22.90	34.98	23.97	397.9	0.349		
126.	20.43	35.16			24.79	321.4	100.	22.07	35.13	24.31	365.9	0.446		
153.	19.46	35.04			24.95	306.6	150.	19.57	35.06	24.94	307.7	0.615		
179.	17.68	34.81			25.22	281.3	200.	15.47	34.52	25.51	253.9	0.757		
194.	16.18	34.60			25.42	262.9	250.	11.19	34.14	26.09	198.4	0.871		
227.	12.59	34.22			25.89	217.8	300.	9.61	34.19	26.41	169.0	0.964		
253.	11.05	34.14			26.12	196.2	400.	8.38	34.40	26.77	136.2	1.118		
279.	9.98	34.16			26.32	177.0	500.	7.16	34.43	26.97	117.5	1.246		
305.	9.55	34.20			26.42	167.6	600.	6.32	34.44	27.09	106.6	1.359		
405.	8.33	34.41			26.78	134.8	700.	5.68	34.46	27.19	98.0	1.462		
507.	7.08	34.43			26.98	116.6	800.	5.14	34.48	27.27	90.7	1.557		
607.	6.27	34.44			27.10	106.0	1000.	4.20	34.50	27.39	79.0	1.729		
810.	5.09	34.48			27.27	90.0	1200.	3.58	34.54	27.49	70.4	1.881		
981.	4.26	34.50			27.38	79.9								
1105.	3.91	34.53			27.44	74.5								
1330.	3.25	34.56			27.53	66.0								

CROMWELL 5, STATION 32, 19- ON LAT, 148- ON LONG, JUNE 30, 1964, 0700 G.C.T.														
DRY BULB 24.4		WET BULB 21.7		WIND SPEED 21, DIR. 05		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	24.63	34.73			23.27	461.6	0.	24.63	34.73	23.27	461.6	0.000		
11.	24.65	34.75			23.28	461.2	10.	24.65	34.75	23.28	461.2	0.046		
30.Δ	24.60	34.73			23.28	461.9	20.	24.63	34.74	23.28	461.7	0.093		
50.Δ	24.54	34.78			23.34	457.4	30.	24.60	34.73	23.28	461.9	0.139		
78.	23.33	34.89			23.78	416.4	50.	24.54	34.78	23.34	457.4	0.232		
90.	23.17	34.98			23.89	405.9	75.	23.46	34.87	23.72	421.1	0.343		
103.	22.64	35.08			24.12	384.7	100.	22.79	35.06	24.06	389.8	0.445		
136.	20.65	34.86			24.50	349.0	150.	18.86	34.70	24.85	316.1	0.623		
154.	18.34	34.66			24.95	306.9	200.	14.20	34.30	25.63	242.6	0.764		
174.	16.58	34.50			25.25	278.0	250.	10.48	34.11	26.19	189.7	0.872		
217.	12.69	34.20			25.85	221.0	300.	8.77	34.11	26.48	161.6	0.961		
236.	11.19	34.13			26.08	199.0	400.	7.82	34.28	26.75	136.8	1.111		
266.	9.88	34.10			26.29	179.5	500.	6.82	34.35	26.95	119.0	1.240		
292.	8.92	34.10			26.45	164.7	600.	5.99	34.41	27.11	104.4	1.353		
411.	7.83	34.30			26.77	135.5	700.	5.39	34.46	27.22	94.3	1.454		
513.	6.68	34.35			26.97	117.0	800.	4.91	34.49	27.30	87.2	1.545		
614.	5.90	34.42			27.13	102.6	1000.	4.17	34.54	27.42	76.3	1.711		
817.	4.84	34.49			27.31	86.2	1200.	3.61	34.57	27.50	68.8	1.858		
1020.	4.11	34.54			27.43	75.4	1500.	2.87	34.61	27.61	59.1	2.052		
1222.	3.55	34.57			27.51	68.1								
1524.	2.82	34.61			27.61	58.5								

FROM ST DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 5, STATION 33, 20-32N LAT, 148-1W LONG, JUNE 30, 1964, 1600 G.C.T.												
DRY BULB 24.0		WET BULB 20.0		WIND SPEED 18, DIR. 04		BAR. 19		WEATHER 01		VIS. 9 CLOUD TYPE 4, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.23	34.75			23.41	448.7	0.	24.23	34.75	23.41	448.7	0.000
10.	24.22	34.75			23.41	448.8	10.	24.22	34.75	23.41	448.8	0.045
20. Δ	24.22	34.75			23.41	449.2	20.	24.22	34.75	23.41	449.2	0.090
30. Δ	24.23	34.75			23.41	449.9	30.	24.23	34.75	23.41	449.9	0.136
49.	23.16	35.08			23.97	396.9	50.	23.13	35.09	23.98	395.7	0.221
73.	22.72	35.11			24.12	383.5	75.	22.69	35.11	24.13	382.6	0.319
96.	22.31	35.14			24.26	371.1	100.	22.21	35.15	24.29	367.7	0.413
120.	21.69	35.22			24.49	349.6	150.	20.74	35.22	24.76	325.4	0.588
146.	20.99	35.25			24.71	330.0	200.	17.98	34.87	25.20	284.7	0.742
169.	19.45	35.07			24.98	304.7	250.	14.35	34.40	25.67	239.8	0.874
183.	18.75	34.98			25.09	294.5	300.	11.79	34.18	26.01	207.8	0.987
216.	17.07	34.74			25.32	273.4	400.	8.68	34.18	26.54	157.3	1.171
241.	14.85	34.46			25.61	245.8	500.	6.55	34.20	26.87	126.3	1.314
266.	13.60	34.33			25.77	230.4	600.	5.73	34.32	27.07	107.8	1.433
290.	12.23	34.20			25.94	214.1	700.	5.17	34.39	27.19	96.8	1.536
387.	9.05	34.18			26.49	162.6	800.	4.79	34.43	27.27	89.6	1.630
484.	6.76	34.18			26.83	130.2	1000.	4.15	34.51	27.40	77.9	1.800
580.	5.86	34.30			27.04	110.6	1200.	3.59	34.56	27.50	69.5	1.949
774.	4.89	34.42			27.25	91.5						
958.	4.27	34.50			27.38	79.8						
1135.	3.80	34.54			27.46	72.7						
1401.	3.06	34.57			27.56	63.5						

CROMWELL 5, STATION 34, 21-59N LAT, 147-57W LONG, JULY 1, 1964, 0200 G.C.T.												
DRY BULB 23.4		WET BULB 20.0		WIND SPEED 18, DIR. 05		BAR. 19		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH.
0.	23.92	34.86			23.58	432.0	0.	23.92	34.86	23.58	432.0	0.000
9.	23.89	34.87			23.60	430.8	10.	23.87	34.88	23.61	429.3	0.043
30.Δ	23.46	35.19			23.96	396.5	20.	23.68	35.03	23.78	413.7	0.086
48.	23.31	35.22			24.03	390.9	30.	23.46	35.19	23.96	396.5	0.127
72.	21.96	35.22			24.42	355.0	50.	23.21	35.22	24.06	388.2	0.206
96.	21.34	35.30			24.65	333.7	75.	21.87	35.23	24.45	351.8	0.299
119.	20.61	35.23			24.79	320.7	100.	21.21	35.29	24.68	331.1	0.385
143.	20.10	35.20			24.91	310.7	150.	19.75	35.15	24.96	305.7	0.545
166.	18.90	35.02			25.08	294.7	200.	17.24	34.77	25.30	274.7	0.692
181.	18.36	34.93			25.15	288.7	250.	14.08	34.37	25.70	236.9	0.821
213.	16.36	34.65			25.41	263.8	300.	11.33	34.13	26.06	202.9	0.931
239.	14.79	34.46			25.62	244.5	400.	8.44	34.08	26.50	161.0	1.115
264.	13.18	34.26			25.80	227.2	500.	6.59	34.12	26.80	132.4	1.263
287.	11.88	34.16			25.98	210.5	600.	5.62	34.25	27.03	111.3	1.386
383.	8.86	34.08			26.44	166.9	700.	5.01	34.36	27.19	96.6	1.491
479.	6.88	34.10			26.75	137.7	800.	4.61	34.44	27.30	86.8	1.584
575.	5.81	34.22			26.98	115.8	1000.	3.97	34.52	27.43	74.7	1.747
766.	4.74	34.42			27.27	89.6	1200.	3.39	34.57	27.53	65.9	1.890
957.	4.11	34.51			27.41	77.1						
1147.	3.51	34.56			27.51	67.8						
1433.	2.88	34.59			27.59	60.1						

CROMWELL 5, STATION 35, 23-28N LAT, 147-56W LONG, JULY 1, 1964, 1200 G.C.T.												
DRY BULB 22.6		WET BULB 18.9		WIND SPEED 17, DIR. 05		BAR. 20		WEATHER 01		VIS. 8		CLOUD TYPE 6, COVER 4
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.32	35.20			24.01	390.7	0.	23.32	35.20	24.01	390.7	0.000
9.	23.31	35.20			24.02	390.8	10.	23.31	35.20	24.02	390.9	0.039
30.Δ	23.30	35.20			24.02	391.3	20.	23.31	35.20	24.02	391.2	0.079
48.	23.25	35.21			24.04	389.9	30.	23.30	35.20	24.02	391.3	0.118
73.	21.51	35.28			24.59	338.8	50.	23.12	35.22	24.08	386.1	0.196
96.	20.96	35.25			24.71	327.4	75.	21.44	35.28	24.60	337.2	0.288
121.	20.32	35.22			24.86	314.0	100.	20.87	35.25	24.74	325.3	0.371
146.	19.32	35.06			25.00	301.4	150.	19.18	35.04	25.02	299.7	0.529
169.	18.46	34.93			25.12	290.7	200.	16.65	34.68	25.37	267.4	0.671
183.	17.71	34.82			25.22	281.4	250.	13.21	34.28	25.81	226.1	0.796
216.	15.54	34.55			25.52	253.2	300.	11.24	34.14	26.08	200.4	0.903
242.	13.63	34.32			25.76	231.1	400.	8.46	34.03	26.47	164.4	1.087
266.	12.51	34.22			25.90	217.3	500.	6.36	34.05	26.78	134.7	1.239
291.	11.54	34.16			26.04	204.4	600.	5.24	34.14	26.99	114.7	1.364
387.	8.80	34.04			26.42	169.0	700.	4.68	34.26	27.15	100.1	1.473
485.	6.60	34.04			26.74	138.4	800.	4.40	34.37	27.27	89.2	1.569
582.	5.38	34.12			26.96	117.8	1000.	3.93	34.51	27.43	75.4	1.735
776.	4.47	34.35			27.24	91.6	1200.	3.48	34.57	27.52	67.0	1.879
970.	4.00	34.50			27.41	76.6						
1165.	3.58	34.54			27.48	70.2						
1459.	2.89	34.60			27.60	59.6						

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 22.5		5, STATION WET BULB 19.2		36, 25- ON LAT, 147-57W LONG, JULY 2, 1964, 0400 G.C.T.	WIND SPEED 16, DIR. 04		BAR. 20	WEATHER 02		VIS. 8	CLOUD TYPE 8, COVER 5			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	23.32	35.24			24.04	387.9	0.	23.32	35.24	24.04	387.9	0.000		
10.	23.32	35.24			24.04	388.2	10.	23.32	35.24	24.04	388.2	0.039		
30.	23.14	35.25			24.10	383.3	20.	23.30	35.24	24.05	388.1	0.078		
48.	22.23	35.33			24.42	353.4	30.	23.14	35.25	24.10	383.3	0.117		
73.	21.28	35.34			24.70	328.4	50.	22.14	35.33	24.45	350.8	0.191		
96.	20.81	35.30			24.79	319.9	75.	21.23	35.34	24.71	327.5	0.276		
119.	20.26	35.28			24.93	308.1	100.	20.73	35.30	24.82	317.9	0.358		
141.	19.37	35.12			25.04	298.1	150.	18.89	35.05	25.10	291.9	0.511		
164.	18.08	34.92			25.21	282.2	200.	15.99	34.60	25.46	258.7	0.650		
177.	17.36	34.79			25.29	275.2	250.	12.57	34.22	25.90	217.6	0.770		
207.	15.54	34.55			25.52	253.0	300.	10.91	34.11	26.12	197.4	0.875		
232.	13.78	34.34			25.74	232.4	400.	8.39	34.03	26.48	163.4	1.057		
255.	12.29	34.20			25.93	214.2	500.	6.48	34.03	26.74	137.9	1.209		
277.	11.58	34.14			26.02	206.2	600.	5.34	34.12	26.96	117.5	1.338		
366.	9.20	34.06			26.37	173.4	700.	4.73	34.24	27.12	102.5	1.449		
453.	7.28	34.01			26.62	149.6	800.	4.35	34.34	27.25	91.2	1.547		
543.	5.88	34.06			26.85	128.1	1000.	3.85	34.47	27.40	77.1	1.717		
720.	4.66	34.26			27.15	100.0	1200.	3.38	34.54	27.51	67.9	1.864		
898.	4.09	34.42			27.34	83.0								
1080.	3.68	34.50			27.44	73.7								
1356.	3.06	34.55			27.54	64.7								

CROMWELL DRY BULB 21.7		5, STATION WET BULB 17.6		37, 26-32N LAT, 147-56W LONG, JULY 2, 1964, 1500 G.C.T.	WIND SPEED 18, DIR. 06		BAR. 22	WEATHER 03		VIS. 8	CLOUD TYPE 6, COVER 7			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	22.32	35.37			24.43	351.1	0.	22.32	35.37	24.43	351.1	0.000		
10.	22.32	35.38			24.44	350.8	10.	22.32	35.38	24.44	350.8	0.035		
20.	22.32	35.38			24.44	351.2	20.	22.32	35.38	24.44	351.2	0.071		
30.	22.32	35.38			24.44	351.6	30.	22.32	35.38	24.44	351.6	0.106		
49.	20.97	35.34			24.78	319.4	50.	20.93	35.34	24.79	318.6	0.174		
73.	20.51	35.34			24.90	308.5	75.	20.49	35.34	24.91	308.0	0.253		
97.	20.36	35.34			24.94	305.5	100.	20.35	35.34	24.95	305.3	0.330		
121.	20.29	35.34			24.96	304.6	150.	20.24	35.34	24.98	304.4	0.483		
146.	20.25	35.34			24.97	304.5	200.	19.69	35.19	25.01	302.9	0.636		
169.	20.22	35.34			24.98	304.5	250.	16.86	34.72	25.35	271.2	0.781		
184.	20.23	35.34			24.98	305.3	300.	13.36	34.32	25.82	227.0	0.907		
207.	19.35	35.11			25.03	300.7	400.	10.23	34.16	26.28	183.7	1.114		
243.	17.39	34.80			25.29	277.3	500.	7.97	34.05	26.55	157.8	1.286		
267.	15.51	34.53			25.52	255.6	600.	6.05	34.04	26.81	132.9	1.433		
291.	13.81	34.36			25.75	233.1	700.	5.03	34.15	27.02	112.6	1.557		
387.	10.56	34.18			26.24	187.7	800.	4.51	34.29	27.19	97.0	1.663		
484.	8.34	34.06			26.51	162.1	1000.	3.91	34.44	27.37	80.2	1.842		
581.	6.31	34.02			26.76	137.3	1200.	3.43	34.54	27.50	68.9	1.994		
774.	4.63	34.26			27.15	100.2								
969.	3.98	34.42			27.35	82.3								
1162.	3.56	34.52			27.47	71.5								
1459.	2.91	34.58			27.58	61.3								

CROMWELL DRY BULB 23.5		5, STATION WET BULB 19.9		38, 25- ON LAT, 151- 0W LONG, JULY 3, 1964, 0800 G.C.T.	WIND SPEED 16, DIR. C6		BAR. 21	WEATHER 02		VIS. 7	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	23.76	35.17			23.86	405.2	0.	23.76	35.17	23.86	405.2	0.000		
9.	23.76	35.17			23.86	405.5	10.	23.76	35.17	23.86	405.6	0.041		
20.	23.78	35.17			23.86	406.5	20.	23.78	35.17	23.86	406.5	0.082		
30.	23.80	35.17			23.85	407.5	30.	23.80	35.17	23.85	407.5	0.123		
50.	23.03	35.32			24.19	376.0	50.	23.03	35.32	24.19	376.0	0.202		
76.	21.79	35.33			24.55	342.7	75.	21.83	35.33	24.54	343.7	0.292		
100.	21.25	35.32			24.69	330.1	100.	21.25	35.32	24.69	330.1	0.377		
126.	20.91	35.32			24.78	322.2	150.	20.02	35.19	24.92	309.7	0.538		
151.	19.97	35.18			24.93	309.1	200.	17.73	34.84	25.23	281.0	0.687		
177.	18.77	34.98			25.08	294.8	250.	14.42	34.42	25.67	240.2	0.819		
191.	18.13	34.89			25.17	286.5	300.	11.97	34.19	25.98	210.4	0.932		
225.	16.37	34.67			25.43	263.0	400.	8.64	34.06	26.46	165.2	1.122		
252.	14.27	34.40			25.69	238.5	500.	6.60	34.06	26.75	137.4	1.274		
279.	12.92	34.25			25.85	223.3	600.	5.37	34.13	26.97	117.0	1.403		
304.	11.80	34.18			26.01	207.9	700.	4.76	34.26	27.14	101.1	1.513		
405.	8.52	34.06			26.48	163.5	800.	4.46	34.39	27.27	89.0	1.609		
508.	6.48	34.06			26.77	135.6	1000.	3.97	34.51	27.42	76.0	1.776		
608.	5.30	34.14			26.98	115.6	1200.	3.41	34.55	27.51	67.9	1.922		
810.	4.45	34.40			27.28	88.0								
1012.	3.94	34.51			27.42	75.5								
1167.	3.45	34.54			27.50	68.7								
1389.	2.97	34.54			27.54	64.6								

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 5, STATION 39, 24-58N LAT, 154-0N LONG, JULY 3, 1964, 2300 G.C.T.					BAR. 22 WEATHER 01 VIS. 8 CLOUD TYPE 6, COVER 2									
DRY BULB 24.8					WET BULB 20.5					WIND SPEED 19, DIR. 09				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.30	34.91			23.50	439.2	0.	24.30	34.91	23.50	439.2	0.000		
10.	24.27	34.91			23.51	438.7	10.	24.27	34.91	23.51	438.7	0.044		
30.Δ	24.24	34.91			23.52	438.7	20.	24.25	34.91	23.52	438.6	0.088		
51.	24.23	34.91			23.53	439.2	30.	24.24	34.91	23.52	438.7	0.133		
75.Δ	23.23	34.95			23.85	409.2	50.	24.24	34.91	23.52	439.4	0.221		
77.	23.23	34.95			23.85	409.2	75.	23.23	34.95	23.85	409.2	0.328		
101.	22.65	35.13			24.15	381.2	100.	22.69	35.12	24.13	383.0	0.426		
126.	21.11	35.12			24.57	341.6	150.	20.36	35.10	24.76	325.1	0.606		
153.	20.28	35.09			24.78	323.6	200.	17.92	34.84	25.19	285.6	0.760		
177.	19.24	35.00			24.98	304.9	250.	15.38	34.55	25.56	251.0	0.895		
192.	18.47	34.91			25.12	292.0	300.	12.74	34.29	25.91	217.8	1.014		
226.	16.39	34.62			25.38	267.1	400.	9.32	34.09	26.38	173.7	1.211		
253.	15.26	34.54			25.58	249.0	500.	7.04	34.02	26.66	146.1	1.372		
279.	13.84	34.38			25.76	231.9	600.	5.56	34.06	26.88	124.9	1.509		
304.	12.54	34.27			25.94	215.2	700.	4.71	34.16	27.07	107.5	1.627		
404.	9.23	34.09			26.39	172.4	800.	4.23	34.29	27.22	93.3	1.728		
505.	6.95	34.02			26.68	145.0	1000.	3.66	34.46	27.41	76.2	1.900		
605.	5.50	34.06			26.89	124.0	1200.	3.32	34.53	27.50	68.2	2.046		
807.	4.21	34.30			27.23	92.5								
1008.	3.65	34.46			27.41	75.7								
1200.	3.32	34.53			27.50	68.2								
1442.	2.87	34.58			27.59	60.2								

CROMWELL 5, STATION 40, 25-1N EAT, 156-59W LONG, JULY 4, 1964, 1400 G.C.T.					BAR. 20 WEATHER 02 VIS. 7 CLOUD TYPE , COVER									
DRY BULB 24.0					WET BULB 20.8					WIND SPEED 16, DIR. C6				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.33	35.12			23.65	424.9	0.	24.33	35.12	23.65	424.9	0.000		
10.	24.35	35.12			23.65	425.9	10.	24.35	35.12	23.65	425.9	0.043		
30.Δ	24.35	35.12			23.65	426.7	20.	24.36	35.12	23.65	426.4	0.086		
50.	24.30	35.12			23.66	426.0	30.	24.35	35.12	23.65	426.7	0.129		
74.	23.54	35.12			23.89	405.5	50.	24.30	35.12	23.66	426.0	0.215		
97.	22.74	35.10			24.10	385.7	75.	23.52	35.12	23.89	405.0	0.319		
120.	20.46	34.94			24.61	337.8	100.	22.47	35.08	24.17	379.8	0.418		
145.	18.41	34.77			25.01	300.3	150.	18.28	34.78	25.06	296.4	0.589		
169.	17.76	34.81			25.20	282.8	200.	15.62	34.57	25.52	252.8	0.727		
184.	16.66	34.69			25.38	266.8	250.	12.96	34.30	25.88	219.4	0.846		
216.	14.69	34.47			25.65	241.1	300.	10.93	34.19	26.17	191.8	0.950		
242.	13.39	34.34			25.82	224.9	400.	8.24	34.06	26.52	159.2	1.127		
267.	12.11	34.24			26.00	208.4	500.	6.43	34.02	26.75	137.5	1.277		
292.	11.20	34.20			26.14	195.4	600.	5.16	34.11	26.97	116.3	1.405		
388.	8.50	34.07			26.49	162.1	700.	4.52	34.23	27.14	100.5	1.514		
486.	6.66	34.02			26.71	140.7	800.	4.19	34.34	27.27	88.9	1.610		
579.	5.34	34.08			26.93	120.2	1000.	3.66	34.47	27.42	75.2	1.776		
771.	4.30	34.32			27.24	91.7	1200.	3.22	34.55	27.52	65.8	1.919		
964.	3.74	34.45			27.40	77.2								
1157.	3.35	34.53			27.50	68.2								
1444.	2.72	34.58			27.60	59.0								

CROMWELL 5, STATION 41, 23-31N LAT, 156-58W LONG, JULY 4, 1964, 2300 G.C.T.					BAR. 21 WEATHER 03 VIS. 7 CLOUD TYPE 6, COVER 7									
DRY BULB 23.6					WET BULB 20.2					WIND SPEED 12, DIR. 10				
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.69	35.01			23.46	443.1	0.	24.69	35.01	23.46	443.1	0.000		
9.	24.69	35.00			23.46	444.2	10.	24.69	35.00	23.45	444.4	0.045		
30.Δ	24.64	35.02			23.49	442.2	20.	24.70	35.00	23.45	445.0	0.089		
49.	24.16	35.14			23.72	420.5	30.	24.64	35.02	23.49	442.2	0.134		
74.	23.34	35.17			23.98	396.3	50.	24.13	35.14	23.43	419.5	0.221		
99.	22.50	35.20			24.25	372.0	75.	23.31	35.17	24.00	395.3	0.324		
122.	21.84	35.20			24.43	355.1	100.	22.47	35.20	24.26	371.3	0.420		
149.	20.78	35.11			24.66	334.8	150.	20.71	35.10	24.67	333.8	0.598		
172.	18.84	34.86			24.97	305.0	200.	16.83	34.77	25.40	265.4	0.749		
185.	17.73	34.84			25.23	280.5	250.	14.34	34.49	25.74	233.0	0.874		
218.	15.97	34.66			25.51	254.7	300.	12.42	34.32	26.00	208.8	0.986		
245.	14.60	34.52			25.71	236.4	400.	9.65	34.12	26.34	177.1	1.180		
271.	13.35	34.40			25.88	220.5	500.	7.27	34.05	26.66	146.9	1.344		
294.	12.60	34.34			25.98	210.9	600.	5.62	34.11	26.92	122.0	1.480		
391.	9.88	34.13			26.31	179.9	700.	4.98	34.24	27.10	105.1	1.595		
477.	7.80	34.06			26.59	153.9	800.	4.60	34.37	27.24	92.1	1.694		
569.	5.92	34.07			26.85	128.2	1000.	3.86	34.51	27.43	74.4	1.863		
757.	4.86	34.33			27.18	97.6	1200.	3.30	34.56	27.53	65.7	2.005		
886.	4.14	34.43			27.34	82.7								
996.	3.87	34.51			27.43	74.5								
1183.	3.38	34.55			27.51	67.3								
1200.**	3.30**	34.56**			27.53	65.7								

TEMPERATURE ERROR TERM AT 700. METERS IS 0.13

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 5, STATION 42, 22- ON LAT, 156-58W LONG, JULY 5, 1964, 0900 G.C.T.												
ORY BULB 23.8		WET BULB 21.7		WIND SPEED 20, DIR. 08		8AR. 19		WEATHER 02		VIS. 7		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	OXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN-OPTH.
0.	24.52	34.86			23.40	449.1	0.	24.52	34.86	23.40	449.1	0.000
10.	24.52	34.86			23.40	449.5	10.	24.52	34.86	23.40	449.5	0.045
30. ^Δ	24.52	34.86			23.40	450.2	20.	24.59	34.86	23.38	451.8	0.091
46.	23.72	34.85			23.63	428.9	30.	24.52	34.86	23.40	450.2	0.136
67.	23.38	34.90			23.77	416.6	50.	23.62	34.86	23.67	425.8	0.224
91.	23.14	34.95			23.88	407.3	75.	23.30	34.92	23.80	413.6	0.330
112.	22.83	35.02			24.02	394.5	100.	23.00	34.98	23.94	401.7	0.433
134.	22.68	35.06			24.09	388.4	150.	22.47	35.14	24.21	377.7	0.629
157.	22.34	35.17			24.27	372.1	200.	20.42	35.12	24.76	326.6	0.807
170.	21.97	35.18			24.38	361.8	250.	17.43	34.79	25.27	279.3	0.959
200.	20.42	35.12			24.76	326.6	300.	14.64	34.50	25.68	240.4	1.090
226.	19.09	35.00			25.02	302.9	400.	9.61	34.14	26.37	174.5	1.300
248.	17.53	34.80			25.25	280.7	500.	6.99	34.13	26.75	137.7	1.457
270.	16.56	34.70			25.41	266.5	600.	5.76	34.21	26.98	116.4	1.586
349.	11.48	34.20			26.09	201.7	700.	5.42	34.36	27.14	102.2	1.696
435.	8.68	34.16			26.53	159.1	800.	5.07	34.44	27.25	92.3	1.794
522.	6.53	34.12			26.81	132.0	1000.	4.33	34.52	27.39	79.4	1.968
714.	5.43	34.38			27.15	100.7	1200.	3.68	34.56	27.49	70.3	2.120
873.	4.80	34.48			27.31	87.0						
1048.	4.16	34.53			27.42	77.1						
1283.	3.44	34.56			27.51	68.0						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.19
TEMPERATURE ERROR TERM AT 600. METERS IS 0.19

ΔFROM 8T DATA

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 6

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA							
CROMWELL 6, STATION 1, 20-34N LAT, 157-17W LONG, JULY 14, 1964, 0900 G.C.T.																	
DRY BULB 25.5			WET BULB 21.2			WIND SPEED 18, DIR. 10			BAR. 21			WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.					
1.	25.74	34.81			22.99	488.2	0.	25.74	34.81	22.99	488.2	0.000					
10.	25.74	34.80			22.98	489.3	10.	25.74	34.80	22.98	489.3	0.049					
50.Δ	25.52	34.79			23.04	485.1	20.	25.71	34.79	22.99	489.0	0.098					
76.	25.33	34.79			23.10	480.6	30.	25.66	34.79	23.00	488.3	0.148					
99.	24.73	34.95			23.41	452.5	50.	25.52	34.79	23.04	485.1	0.246					
123.	24.78	35.18			23.56	438.4	75.	25.34	34.79	23.10	481.0	0.367					
150.	20.81	35.06			24.61	339.2	100.	24.76	34.96	23.41	452.5	0.485					
174.	18.96	34.92			24.99	303.7	150.	20.81	35.06	24.61	339.2	0.685					
188.	18.44	34.86			25.07	295.9	200.	17.69	34.78	25.20	284.1	0.842					
221.	16.19	34.63			25.44	261.8	250.	14.39	34.43	25.68	238.7	0.973					
248.	14.52	34.44			25.66	240.6	300.	11.88	34.26	26.05	203.8	1.085					
273.	12.96	34.33			25.90	218.1	400.	8.70	34.14	26.51	160.4	1.269					
298.	11.96	34.26			26.04	204.9	500.	6.67	34.15	26.82	131.1	1.416					
397.	8.78	34.14			26.50	161.5	600.	5.78	34.28	27.03	111.6	1.538					
496.	6.72	34.15			26.81	132.1	700.	5.36	34.35	27.14	101.6	1.646					
593.	5.82	34.27			27.02	112.4	800.	5.07	34.41	27.22	95.0	1.746					
789.	5.12	34.40			27.21	96.1	1000.	4.18	34.50	27.39	79.4	1.922					
974.	4.26	34.49			27.38	80.6	1200.	3.57	34.54	27.48	70.6	2.074					
1180.	3.71	34.52			27.46	73.4											
1473.	2.95	34.56			27.56	63.4											

CROMWELL 6, STATION 2, 19- ON LAT, 156-58W LONG, JULY 14, 1964, 1900 G.C.T.																
DRY BULB 25.5			WET BULB 22.0			WIND SPEED 18, DIR. 14			BAR. 20		WEATHER 01		VIS. 8		CLOUD TYPE 3, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.				
1.	25.39	34.74			23.05	482.9	0.	25.39	34.74	23.05	482.9	0.000				
6.	25.41	34.75			23.05	483.0	10.	25.39	34.75	23.05	482.6	0.049				
18.	25.33	34.75			23.07	481.1	20.	25.32	34.75	23.08	480.8	0.097				
50.Δ	25.06	34.75			23.16	474.5	30.	25.24	34.75	23.10	479.0	0.145				
83.	24.65	34.74			23.27	464.7	50.	25.06	34.75	23.16	474.5	0.242				
107.	23.58	34.84			23.66	428.1	75.	24.81	34.74	23.22	469.4	0.360				
134.	22.60	35.07			24.12	385.5	100.	23.92	34.80	23.54	440.0	0.475				
158.	21.67	35.11			24.41	358.4	150.	21.97	35.10	24.33	366.5	0.678				
184.	21.02	35.18			24.64	337.2	200.	18.18	34.79	25.08	295.5	0.845				
198.	18.38	34.81			25.05	298.4	250.	14.79	34.48	25.63	243.5	0.981				
234.	16.16	34.61			25.43	263.0	300.	12.40	34.28	25.97	211.7	1.096				
260.	13.97	34.40			25.75	232.6	400.	8.54	34.14	26.54	157.5	1.282				
310.	12.16	34.27			26.01	208.2	500.	6.77	34.24	26.87	126.2	1.425				
412.	8.12	34.14			26.60	151.6	600.	5.98	34.32	27.04	110.8	1.545				
513.	6.67	34.26			26.90	123.5	700.	5.47	34.39	27.18	100.0	1.651				
613.	5.91	34.33			27.06	109.4	800.	5.09	34.46	27.26	91.4	1.748				
818.	5.03	34.47			27.27	90.1	1000.	4.37	34.53	27.39	79.4	1.921				
1020.	4.30	34.53			27.40	78.5	1200.	3.80	34.55	27.47	72.5	2.075				
1214.	3.76	34.55			27.47	72.1										
1460.	3.01	34.58			27.57	62.6										

CROMWELL 6, STATION 3, 17-30N LAT, 157- ON LONG, JULY 15, 1964, 0400 G.C.T.													
DRY BULB 25.4		WET BULB 22.5		WIND SPEED 19, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	25.80	34.78			22.95	492.1	0.	25.80	34.78	22.95	492.1	0.000	
10.	25.76	34.77			22.96	492.0	10.	25.76	34.77	22.96	492.0	0.050	
51.	25.51	34.70			22.98	491.3	20.	25.74	34.74	22.94	494.1	0.099	
76.	24.95	34.81			23.23	468.0	30.	25.70	34.72	22.94	494.7	0.149	
101.	22.82	35.00			24.01	395.3	50.	25.52	34.70	22.98	491.6	0.248	
126.	22.01	35.00			24.23	374.3	75.	24.99	34.80	23.22	469.6	0.369	
150.	20.74	35.01			24.59	341.0	100.	22.91	34.99	23.98	398.1	0.479	
176.	18.77	34.88			25.01	302.0	150.	20.74	35.01	24.59	341.0	0.665	
190.	17.79	34.76			25.16	287.8	200.	17.02	34.68	25.28	276.1	0.821	
224.	15.12	34.50			25.58	248.1	250.	13.11	34.30	25.85	222.6	0.946	
250.	13.11	34.30			25.85	222.6	300.	10.59	34.26	26.29	180.7	1.048	
276.	11.39	34.22			26.12	196.9	400.	8.32	34.30	26.70	142.6	1.211	
301.	10.57	34.26			26.30	180.1	500.	7.25	34.42	26.95	119.7	1.343	
401.	8.30	34.30			26.70	142.4	600.	6.59	34.46	27.07	108.9	1.459	
501.	7.24	34.42			26.95	119.5	700.	5.94	34.47	27.17	100.3	1.565	
600.	6.59	34.46			27.07	108.9	800.	5.35	34.48	27.24	93.3	1.662	
800.	5.35	34.48			27.24	93.3	1000.	4.50	34.52	27.37	81.6	1.839	
1000.	4.50	34.52			27.37	81.6	1200.	3.90	34.57	27.48	72.2	1.995	
1200.	3.90	34.57			27.48	72.2	1500.	3.09	34.57	27.56	64.5	2.203	
1500.	3.09	34.57			27.56	64.5							

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 4, 15-56N LAT, 156-59W LONG, JULY 15, 1964, 1400 G.C.T.													
DRY BULB 25.0		WET BULB 22.7		WIND SPEED 20, DIR. 06		BAR. 16		WEATHER 02		VIS.		CLOUD TYPE , COVER	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.	
0.	25.69	34.64			22.88	498.9	0.	25.69	34.64	22.88	498.9	0.000	
9.	25.72	34.62			22.86	501.6	10.	25.72	34.62	22.86	501.6	0.050	
30.Δ	25.64	34.62			22.88	500.1	20.	25.69	34.62	22.86	501.4	0.101	
50.Δ	25.60	34.62			22.89	499.7	30.	25.64	34.62	22.88	500.1	0.151	
72.	25.22	34.62			23.01	489.4	50.	25.60	34.62	22.89	499.7	0.252	
94.	23.53	34.68			23.56	437.7	75.	25.14	34.61	23.03	487.8	0.376	
100.Δ	22.40	34.78			23.96	399.7	100.	22.40	34.78	23.96	399.7	0.488	
118.	21.04	34.90			24.43	355.6	150.	18.76	34.89	25.02	299.7	0.664	
142.	19.37	34.94			24.90	311.2	200.	13.44	34.30	25.78	227.4	0.797	
165.	17.34	34.73			25.24	278.7	250.	11.28	34.23	26.14	193.8	0.903	
179.	15.51	34.48			25.48	256.6	300.	9.19	34.23	26.51	159.1	0.992	
211.	12.69	34.27			25.91	215.7	400.	7.76	34.37	26.83	129.3	1.138	
237.	11.90	34.24			26.04	203.8	500.	6.84	34.43	27.01	113.0	1.260	
261.	10.71	34.22			26.24	184.6	600.	5.98	34.43	27.12	103.0	1.369	
284.	9.65	34.22			26.42	167.3	700.	5.36	34.46	27.22	93.9	1.469	
378.	8.00	34.34			26.78	134.5	800.	4.90	34.49	27.31	86.6	1.560	
473.	7.10	34.43			26.98	116.3	1000.	4.22	34.54	27.42	76.6	1.725	
566.	6.22	34.42			27.09	106.3	1200.	3.61	34.57	27.51	68.6	1.872	
757.	5.08	34.48			27.28	89.3							
947.	4.39	34.53			27.39	79.0							
1137.	3.80	34.56			27.48	71.2							
1381.	3.14	34.59			27.57	62.9							

CROMWELL 6, STATION 5, 14-25N LAT, 156-59W LONG, JULY 15, 1964, 2200 G.C.T.													
DRY BULB 25.9		WET BULB 23.1		WIND SPEED 19, DIR. 07		BAR. 17		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.DPTH.	
0.	25.71	34.68			22.90	496.6	0.	25.71	34.68	22.90	496.6	0.000	
10.	25.73	34.68			22.90	497.6	10.	25.73	34.68	22.90	497.6	0.050	
30.Δ	25.70	34.69			22.91	496.8	20.	25.72	34.68	22.90	497.5	0.100	
50.Δ	25.64	34.69			22.93	495.8	30.	25.70	34.69	22.91	496.8	0.150	
77.	24.22	34.82			23.46	446.4	50.	25.64	34.69	22.93	495.8	0.250	
101.	23.47	34.91			23.75	419.7	75.	24.34	34.81	23.42	450.6	0.369	
126.	22.12	35.08			24.26	371.4	100.	23.50	34.91	23.74	420.9	0.479	
152.	20.00	35.00			24.78	322.9	150.	20.18	35.01	24.74	326.3	0.668	
177.	17.96	34.78			25.13	289.9	200.	15.00	34.45	25.57	248.3	0.812	
191.	16.17	34.56			25.39	265.5	250.	10.35	34.20	26.29	179.7	0.920	
225.	12.15	34.26			26.01	206.6	300.	9.37	34.37	26.59	151.7	1.004	
251.	10.30	34.20			26.30	178.9	400.	8.39	34.52	26.86	127.5	1.145	
278.	9.73	34.30			26.47	162.6	500.	7.20	34.49	27.01	113.7	1.266	
302.	9.34	34.38			26.60	150.9	600.	6.53	34.50	27.11	105.1	1.377	
401.	8.38	34.52			26.86	127.4	700.	5.84	34.50	27.20	97.1	1.479	
501.	7.19	34.49			27.01	113.6	800.	5.21	34.50	27.28	89.9	1.574	
602.	6.52	34.50			27.11	105.0	1000.	4.38	34.54	27.40	78.7	1.744	
801.	5.20	34.50			27.28	89.9	1200.	3.76	34.57	27.49	70.5	1.895	
1001.	4.38	34.54			27.40	78.6							
1200.	3.76	34.57			27.49	70.5							
1482.	3.00	34.61			27.60	60.4							

CROMWELL 6, STATION 6, 13- 6N LAT, 157- 2W LONG, JULY 16, 1964, 0600 G.C.T.													
DRY BULB 26.3		WET BULB 23.5		WIND SPEED 18, DIR. 07		BAR. 15		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.DPTH.	
1.	26.61	34.62			22.58	527.9	0.	26.61	34.62	22.58	527.8	0.000	
11.	26.63	34.62			22.57	528.9	10.	26.63	34.62	22.57	528.9	0.053	
30.Δ	26.52	34.61			22.60	527.1	20.	26.59	34.62	22.58	528.4	0.106	
50.Δ	26.36	34.61			22.65	523.0	30.	26.52	34.61	22.60	527.1	0.160	
77.	23.78	34.60			23.42	449.8	50.	26.36	34.61	22.65	523.0	0.265	
102.	22.90	34.84			23.86	409.0	75.	23.99	34.60	23.36	455.9	0.389	
127.	20.27	34.77			24.53	345.5	100.	22.98	34.82	23.83	412.3	0.498	
153.	18.23	34.80			25.08	294.1	150.	18.49	34.80	25.02	299.9	0.678	
178.	14.67	34.42			25.62	243.2	200.	11.87	34.20	26.01	205.3	0.805	
193.	12.55	34.24			25.91	214.8	250.	9.73	34.28	26.45	163.6	0.898	
227.	10.30	34.19			26.29	179.1	300.	9.52	34.51	26.67	143.7	0.975	
254.	9.69	34.30			26.48	161.5	400.	8.61	34.59	26.88	125.7	1.111	
282.	9.51	34.42			26.60	150.3	500.	7.79	34.56	26.98	116.9	1.234	
305.	9.52	34.54			26.69	142.0	600.	6.78	34.52	27.10	106.7	1.347	
407.	8.52	34.58			26.89	125.2	700.	5.93	34.53	27.21	95.8	1.449	
511.	7.70	34.56			26.99	116.1	800.	5.26	34.56	27.31	86.6	1.541	
612.	6.65	34.52			27.11	105.4	1000.	4.31	34.52	27.40	79.0	1.709	
815.	5.18	34.56			27.33	85.3	1200.	3.74	34.57	27.50	70.0	1.860	
1018.	4.25	34.52			27.40	78.6							
1220.	3.69	34.58			27.51	69.1							
1498.	2.93	34.61			27.60	59.6							

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA		INTERPOLATED DATA							
CROMWELL 6, STATION 7, 11-31N LAT, 157- 1W LONG, JULY 16, 1964, 1600 G.C.T.													
DRY BULB 26.0		WET BULB 23.5		WIND SPEED 20, DIR. 04		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYM.OPTH.	
0.	26.63	34.64			22.59	527.0	0.	26.63	34.64	22.59	527.0	0.000	
10.	26.61	34.64			22.59	526.8	10.	26.61	34.64	22.59	526.8	0.053	
30. Δ	26.60	34.65			22.60	526.6	20.	26.61	34.64	22.60	526.8	0.106	
49.	26.57	34.66			22.64	524.2	30.	26.60	34.65	22.60	526.6	0.159	
75. Δ	23.50	34.64			23.54	439.0	50.	26.41	34.66	22.67	521.1	0.265	
77.	23.37	34.64			23.57	435.5	75.	23.50	34.64	23.54	439.0	0.386	
101.	20.62	34.88			24.52	345.6	100.	20.76	34.87	24.48	349.9	0.485	
125.	17.26	34.70			25.24	277.8	150.	13.57	34.37	25.81	223.6	0.630	
151.	13.43	34.36			25.83	221.8	200.	10.63	34.52	26.49	159.7	0.726	
175.	11.21	34.33			26.24	183.3	250.	10.45	34.68	26.64	146.1	0.803	
190.	10.68	34.44			26.42	166.3	300.	9.80	34.61	26.75	136.8	0.875	
224.	10.73	34.67			26.59	151.0	400.	8.71	34.61	26.88	125.8	1.007	
251.	10.44	34.68			26.65	145.9	500.	7.71	34.56	26.99	116.0	1.129	
276.	10.02	34.68			26.72	139.4	600.	6.70	34.53	27.11	105.2	1.241	
302.	9.78	34.67			26.75	136.7	700.	5.94	34.53	27.21	96.2	1.342	
401.	8.70	34.61			26.88	125.7	800.	5.34	34.54	27.29	88.7	1.436	
502.	7.69	34.56			26.99	115.8	1000.	4.42	34.55	27.41	78.3	1.605	
602.	6.68	34.53			27.11	105.0	1200.	3.67	34.58	27.51	68.7	1.754	
802.	5.33	34.54			27.29	88.6	1500.	2.89	34.61	27.61	59.2	1.948	
1002.	4.41	34.55			27.41	78.3							
1200.	3.67	34.58			27.51	68.7							
1501.	2.89	34.61			27.61	59.2							

CRDWELL 6, STATION 7A, 10- 0N LAT, 153-58W LONG, JULY 17, 1964, 1100 G.C.T.													
DRY BULB 26.0		WET BULB 23.9		WIND SPEED 11, DIR. 12		BAR. 13		WEATHER 02		VIS.		CLDUD TYPE , COVER	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	26.68	33.74	5.10	0.22	21.89	593.3	0.	26.68	33.74	21.89	593.3	0.000	
9.	26.70	33.77	4.97	0.35	21.91	592.1	10.	26.70	33.77	21.91	592.2	0.060	
20.Δ	26.70	33.76			21.90	593.2	20.	26.70	33.76	21.90	593.2	0.119	
30.Δ	26.66	33.78			21.93	591.0	30.	26.66	33.78	21.93	591.0	0.179	
40.Δ	20.38	34.47	4.67	0.67	24.28	366.9	50.	15.60	34.43	25.42	258.3	0.265	
50.Δ	15.60	34.43			25.42	258.3	75.	12.07	34.39	26.13	191.6	0.321	
55.	14.66	34.42	2.64	1.48	25.62	239.5	100.	11.22	34.49	26.36	169.8	0.367	
65.	13.26	34.39	2.22	1.80	25.89	214.0	150.	10.77	34.67	26.58	150.0	0.447	
77.	11.89	34.40	1.71	2.12	26.16	188.0	200.	10.28	34.70	26.69	141.0	0.521	
89.	11.54	34.46	1.43	2.09	26.28	177.5	250.	9.62	34.66	26.77	133.4	0.590	
113.	10.90	34.52	1.01	2.52	26.44	162.5	300.	9.38	34.65	26.80	131.5	0.657	
160.	10.78	34.70	0.41	2.47	26.60	148.2	400.	8.63	34.64	26.92	122.2	0.785	
174.	10.63	34.70	0.41	2.46	26.63	146.0	500.	7.65	34.58	27.02	113.6	0.904	
230.	9.86	34.68*	0.47		26.75	135.7	600.	6.74	34.55	27.12	104.5	1.014	
254.	9.58	34.66	0.41	2.63	26.78	133.1	700.	6.00	34.54	27.21	96.3	1.115	
276.	9.50	34.65	0.48	2.47	26.78	133.0	800.	5.39	34.54	27.29	89.0	1.209	
368.	8.92	34.66	0.70	2.62	26.88	124.8	1000.	4.46	34.57	27.42	77.5	1.377	
461.	8.03	34.60	0.44	2.97	26.98	117.2	1200.	3.74	34.59	27.51	68.9	1.526	
552.	7.15	34.56	0.51	2.93	27.07	108.7							
737.	5.76	34.54	0.86	2.98	27.24	93.5							
923.	4.77	34.56	0.92	3.02	27.37	81.3							
1108.	4.08	34.58	1.27	3.54	27.47	72.9							
1372.	3.27	34.60	1.73	2.48	27.56	63.6							

CRDWELL 6, STATION 8, 11-33N LAT, 154- 0W LONG, JULY 17, 1964, 2000 G.C.T.													
DRY BULB 26.9		WET BULB 23.9		WIND SPEED 16, DIR. 07		BAR. 13		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	27.00	34.13			22.08	574.9	0.	27.00	34.13	22.08	574.9	0.000	
10.	27.00	34.13	5.04	0.30	22.08	575.3	10.	27.00	34.13	22.08	575.3	0.058	
30.Δ	27.00	34.13			22.08	576.1	20.	27.07	34.10	22.04	580.0	0.116	
50.	25.80	34.58	5.13	0.24	22.80	508.5	30.	27.00	34.13	22.08	576.1	0.174	
60.	24.62	34.66	5.23	0.34	23.22	468.7	50.	25.80	34.58	22.80	508.5	0.284	
77.	22.30	34.94	5.36	0.19	24.11	384.5	75.	22.59	34.91	24.00	394.4	0.397	
103.	18.38	34.78		0.49	25.03	297.4	100.	18.86	34.82	24.94	305.7	0.486	
127.	14.31	34.42	3.15		25.69	234.4	150.	12.40	34.59	26.21	185.0	0.609	
153.	12.26	34.63	0.93	2.22	26.27	179.7	200.	10.78	34.74	26.63	146.4	0.693	
176.	11.62	34.74	0.38	2.48	26.48	160.6	250.	10.26	34.71	26.70	140.4	0.765	
183.	11.29	34.74	0.48	2.22	26.54	154.8	300.	9.60	34.67	26.78	133.9	0.834	
227.	10.60	34.73	1.22	2.24	26.66	144.5	400.	8.88	34.63	26.87	126.9	0.966	
254.	10.20	34.71	0.99	2.36	26.71	139.7	500.	7.69	34.55	26.99	116.6	1.089	
281.	9.80	34.69	0.86	2.49	26.76	135.1	600.	6.69	34.52	27.10	105.8	1.201	
307.	9.54	34.66	0.68	2.54	26.78	133.6	700.	5.95	34.52	27.20	97.4	1.304	
408.	8.82	34.63	0.59	2.65	26.88	126.2	800.	5.38	34.52	27.27	90.8	1.399	
510.	7.56	34.54	0.61	2.55	27.00	115.5	1000.	4.55	34.54	27.38	80.9	1.572	
612.	6.59	34.52	0.69	2.71	27.12	104.6	1200.	3.86	34.56	27.47	72.6	1.728	
814.	5.31	34.52	0.83	2.71	27.28	90.0							
1018.	4.49	34.54	1.18	2.93	27.39	80.2							
1207.	3.84	34.56	1.32	2.94	27.47	72.3							
1441.	3.19	34.58	1.72		27.55	64.6							

TEMPERATURE ERROR TERM AT 200. METERS IS 0.16

ΔFROM ST DATA
 *INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
6, STATION 9, 13- 4N LAT, 154- 4W LENG, JULY 18, 1964, 0600 G.C.T.														
CROMWELL		WET BULB		WIND SPEED		BAR. 13		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2		
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
1.	26.43	34.69	6.03	0.25	22.69	517.4	0.	26.43	34.69	22.69	517.4	0.000		
11.	26.44	34.68	5.09	0.20	22.68	518.8	10.	26.44	34.68	22.68	518.7	0.052		
50.	26.36	34.72			22.73	515.1	20.	26.44	34.68	22.68	518.6	0.104		
75.	26.22	34.75	5.14	0.28	22.80	509.8	30.	26.42	34.69	22.69	518.3	0.157		
99.	22.70	34.83	5.47	0.23	23.91	404.2	50.	26.36	34.72	22.73	515.1	0.261		
123.	20.72	35.04	5.25	0.26	24.62	337.4	75.	26.22	34.75	22.80	509.8	0.390		
148.	18.56	34.85	4.83	0.47	25.04	298.2	100.	22.60	34.84	23.95	400.7	0.505		
171.	15.40	34.50	3.56	1.26	25.52	252.5	150.	18.29	34.82	25.08	293.8	0.680		
187.	13.81	34.32	3.51	1.20	25.72	233.2	200.	12.91	34.38	25.95	211.4	0.807		
221.	11.87	34.58	0.87	1.97	26.31	177.9	250.	10.77	34.60	26.53	157.4	0.900		
247.	10.84	34.60*	0.89	2.12	26.51	158.6	300.	10.03	34.60	26.66	145.8	0.976		
272.	10.39	34.60	0.56	2.01	26.59	151.4	400.	9.05	34.62	26.83	130.7	1.116		
296.	10.07	34.60	0.45	2.34	26.65	146.5	500.	8.00	34.56	26.95	120.5	1.243		
393.	9.12	34.62	0.41	2.41	26.82	131.5	600.	7.02	34.54	27.07	109.1	1.359		
492.	8.08	34.56	0.41	2.08	26.94	121.5	700.	6.22	34.54	27.18	99.4	1.464		
590.	7.11	34.54	0.43	2.05	27.06	110.2	800.	5.56	34.54	27.27	91.6	1.560		
786.	5.64	34.54	0.70	2.97	27.26	92.5	1000.	4.59	34.54	27.38	81.0	1.735		
982.	4.66	34.54	0.95	2.89	27.37	82.0	1200.	3.90	34.57	27.48	72.4	1.890		
1182.	3.99	34.58	1.24	2.38	27.48	72.5								
1480.	3.32**	34.60	1.83	2.57	27.56	65.0								

6, STATION 10, 14-27N LAT, 153-54W LENG, JULY 18, 1964, 1400 G.C.T.														
CROMWELL		WET BULB		WIND SPEED		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	25.93	34.80	5.11	0.29	22.93	494.5	0.	25.93	34.80	22.93	494.5	0.000		
9.	25.96	34.81	5.11	0.24	22.92	495.0	10.	25.96	34.81	22.92	495.1	0.050		
30.	25.92	34.81			22.94	494.7	20.	25.95	34.81	22.93	495.0	0.100		
50.	25.88	34.81			22.95	494.3	30.	25.92	34.81	22.94	494.7	0.150		
74.	23.25	34.76	5.47	0.23	23.70	423.4	50.	25.88	34.81	22.95	494.3	0.249		
98.	22.45	34.97	5.41	0.21	24.05	387.2	75.	23.21	34.77	23.72	421.6	0.365		
122.	20.63	34.93	5.03	0.38	24.56	343.0	100.	22.31	34.97	24.13	383.5	0.466		
147.	19.15	34.92	4.67	0.44	24.94	307.4	150.	18.93	34.90	24.98	303.9	0.639		
172.	17.11	34.66	4.30	0.63	25.25	278.8	200.	14.15	34.36	25.68	237.2	0.776		
187.	15.71	34.50	4.31	0.76	25.45	259.7	250.	10.89	34.28	26.25	183.3	0.882		
220.	12.02	34.22	3.47	1.49	26.00	207.0	300.	10.17	34.56	26.60	151.0	0.966		
246.	10.94	34.23	1.53	1.95	26.21	187.5	400.	8.90	34.56	26.81	132.8	1.109		
271.	10.72	34.52	0.77		26.47	163.0	500.	7.63	34.50	26.96	119.3	1.236		
295.	10.25	34.56	0.55	2.48	26.59	152.5	600.	6.62	34.50	27.10	106.3	1.350		
394.	8.98	34.56	0.35	2.62	26.80	133.7	700.	5.89	34.50	27.20	97.5	1.453		
493.	7.71	34.50	0.51	2.72	26.94	120.3	800.	5.33	34.51	27.27	90.7	1.548		
591.	6.69	34.50	0.46	2.57	27.09	107.2	1000.	4.38	34.54	27.40	78.6	1.720		
788.	5.40	34.51	0.71	2.69	27.26	91.6	1200.	3.73	34.55	27.48	71.6	1.872		
986.	4.43	34.54	0.92		27.40	79.1								
1183.	3.86	34.54	1.26	2.71	27.46	73.8								
1482.	3.06	34.57	1.64	2.86	27.56	64.0								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.14

6, STATION 11, 16- ON LAT, 154- 1W LENG, JULY 18, 1964, 2300 G.C.T.														
CROMWELL		WET BULB		WIND SPEED		BAR. 16		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	25.44	34.68	5.05	0.27	22.99	488.7	0.	25.44	34.68	22.99	488.7	0.000		
9.	25.29	34.68	5.12	0.26	23.03	484.7	10.	25.30	34.68	23.03	485.2	0.049		
30.	25.14	34.72			23.11	478.2	20.	25.31	34.68	23.03	485.7	0.098		
49.	23.40	35.00	5.52	0.20	23.84	409.3	30.	25.14	34.72	23.11	478.2	0.146		
75.	22.72	35.05	5.51	0.26	24.07	387.9	50.	23.36	35.01	23.85	407.7	0.236		
99.	21.95	35.10	5.37	0.24	24.33	364.4	75.	22.72	35.05	24.07	387.9	0.336		
125.	20.19	34.96	4.85		24.70	329.7	100.	21.89	35.10	24.34	363.2	0.431		
150.	18.45	34.81	4.79	0.54	25.03	298.5	150.	18.45	34.81	25.03	298.5	0.597		
175.	15.95	34.48	3.96	0.98	25.38	266.0	200.	13.34	34.25	25.77	229.0	0.730		
188.	14.54	34.38	4.29		25.61	243.7	250.	10.49	34.45	26.46	163.7	0.829		
223.	11.53	34.14	3.97	1.27	26.03	204.1	300.	9.76	34.44	26.58	153.2	0.909		
250.	10.49	34.45*	2.23		26.46	163.7	400.	8.62	34.50	26.81	132.5	1.053		
276.	10.43	34.46	0.98	2.06	26.48	162.5	500.	7.70	34.50	26.95	120.3	1.181		
300.	9.76	34.44	0.89	2.35	26.58	153.2	600.	6.83	34.48	27.05	110.7	1.298		
400.	8.62	34.50	0.37	2.68	26.81	132.5	700.	6.16	34.48	27.15	102.5	1.405		
500.	7.70	34.50	0.37		26.95	120.3	800.	5.61	34.50	27.23	95.3	1.505		
601.	6.82	34.48	0.50		27.06	110.6	1000.	4.60	34.52	27.36	82.9	1.686		
802.	5.60	34.50	0.64	2.78	27.23	95.1	1200.	3.99	34.56	27.46	74.2	1.845		
1001.	4.60	34.52	0.93	2.69	27.36	82.9								
1202.	3.99	34.56	1.19	2.85	27.46	74.1								
1486.	3.37	34.57	1.49	2.85	27.53	67.9								

FROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA							
CROMWELL 6, STATION 12, 17-30N LAT, 153-59W LONG, JULY 19, 1964, 0900 G.C.T.															
DRY BULB 25.0			WET BULB 22.9		WIND SPEED 16, DIR. 07			BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.			
0.	25.19	34.69	5.22	0.22	23.07	480.7	0.	25.19	34.69	23.07	480.7	0.000			
10.	25.19	34.68	5.23	0.26	23.06	481.8	10.	25.19	34.68	23.06	481.8	0.048			
30.	25.20	34.68			23.06	482.9	20.	25.20	34.68	23.06	482.6	0.097			
51.	25.10	34.68	5.23	0.22	23.09	480.8	30.	25.20	34.68	23.06	482.9	0.146			
76.	23.92	34.69	5.47	0.30	23.45	447.2	50.	25.12	34.68	23.09	481.2	0.243			
100.	23.10	34.89	5.48	0.23	23.84	410.9	75.	23.98	34.69	23.43	448.9	0.360			
124.	22.26	35.04	5.50	0.19	24.20	378.0	100.	23.10	34.89	23.84	410.9	0.468			
149.	21.63	35.15	5.42	0.23	24.45	354.2	150.	21.61	35.15	24.46	353.5	0.661			
173.	20.72	35.12	5.20	0.84	24.68	333.4	200.	17.80	34.74	25.14	289.6	0.823			
187.	19.30	34.92	4.91	0.40	24.90	312.5	250.	12.91	34.29	25.88	219.2	0.951			
222.	15.33	34.49	4.24	0.81	25.33	253.3	300.	10.36	34.31	26.37	173.1	1.050			
247.	13.15	34.31	4.18	0.91	25.85	222.5	400.	8.46	34.37	26.73	139.3	1.208			
272.	11.41	34.22	3.80	1.24	26.11	197.2	500.	7.32	34.42	26.94	120.5	1.339			
296.	10.48	34.30	2.54	1.76	26.34	175.5	600.	6.57	34.44	27.06	109.9	1.455			
393.	8.56	34.37	1.28	2.42	26.71	141.0	700.	5.89	34.46	27.16	100.9	1.562			
492.	7.39	34.42	0.72	2.74	26.93	121.5	800.	5.33	34.47	27.24	93.5	1.660			
590.	6.64	34.44	0.63	2.73	27.05	110.9	1000.	4.50	34.51	27.37	82.1	1.838			
785.	5.40	34.47	0.79	2.69	27.23	94.5	1200.	3.79	34.55	27.47	72.6	1.994			
981.	4.58	34.51	1.08	2.97	27.36	83.1									
1167.	3.87	34.54	1.20	2.79	27.46	73.8									
1411.	3.23	34.58	1.62	2.91	27.55	64.9									

CROMWELL 6, STATION 13, 18-59N LAT, 153-59W LONG, JULY 19, 1964, 1800 G.C.T.														
DRY BULB 24.0			WET BULB 22.5			WIND SPEED 19, DIR. 07			BAR. 18			WEATHER 91		
												VIS. 3		
												CLOUD TYPE 7, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.		
0.	25.04	34.88	4.75	0.18	23.26	462.6	0.	25.04	34.88	23.26	462.6	0.000		
9.	25.04	34.88	5.03	0.18	23.26	463.0	10.	25.04	34.88	23.26	463.1	0.047		
30.	25.00	34.88			23.27	462.6	20.	25.03	34.88	23.26	463.4	0.093		
49.	24.81	34.92	5.10	0.21	23.36	455.0	30.	25.00	34.88	23.27	462.6	0.140		
74.	23.63	35.00	5.33	0.36	23.77	416.7	50.	24.77	34.92	23.37	453.7	0.232		
98.	22.67	34.99	5.31	0.27	24.03	392.5	75.	23.58	35.00	23.78	415.5	0.342		
123.	22.26	35.09	5.22	0.20	24.23	374.4	100.	22.63	34.99	24.05	391.0	0.443		
147.	21.49	35.14	5.05	0.22	24.49	351.1	150.	21.38	35.14	24.52	348.0	0.629		
173.	20.43	35.13	4.33	0.23	24.77	325.2	200.	18.92	34.95	25.02	301.2	0.793		
197.	19.74	35.06	4.73	0.30	24.89	313.3	250.	15.55	34.59	25.55	252.0	0.933		
220.	17.55	34.78	4.63	0.42	25.23	281.7	300.	12.12	34.24	25.99	209.7	1.049		
248.	15.70	34.60	4.74	0.50	25.53	254.0	400.	8.05	34.08	26.57	154.5	1.233		
272.	13.94	34.42	4.75	0.63	25.77	230.9	500.	6.92	34.24	26.86	127.9	1.375		
297.	12.30	34.25	4.94	0.84	25.97	211.9	600.	6.04	34.32	27.03	111.5	1.496		
396.	8.13	34.04	3.70	1.91	26.55	155.9	700.	5.35	34.40	27.18	98.1	1.602		
496.	6.96	34.24	1.35	2.39	26.85	128.7	800.	4.82	34.46	27.29	87.9	1.696		
596.	6.07	34.32	0.72	2.81	27.03	112.1	1000.	4.07	34.52	27.42	76.3	1.862		
796.	4.94	34.46	0.85	2.77	27.29	88.2	1200.	3.49	34.56	27.51	67.8	2.008		
998.	4.08	34.52	1.03	2.92	27.42	76.4	1500.	2.78	34.60	27.61	58.6	2.200		
1197.	3.54	34.56	1.76	2.78	27.50	68.5								
1500.	2.78	34.60	1.58	2.58	27.61	58.6								

CROMWELL 6, STATION 14, 20-28N LAT, 154- 2W LONG, JULY 20, 1964, 0300 G.C.T.														
DRY BULB 24.9			WET BULB 21.9			WIND SPEED 18, DIR. 06			BAR. 17			WEATHER 01		
												VIS. 8		
												CLOUD TYPE 6, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTM.		
0.	24.92	34.97	5.11	0.26	23.36	452.7	0.	24.92	34.97	23.36	452.7	0.000		
11.	24.85	34.97	5.19	0.20	23.39	451.1	10.	24.86	34.97	23.38	451.2	0.046		
30.	24.62	34.96			23.45	445.9	20.	24.75	34.97	23.41	448.7	0.091		
51.	24.39	34.94	5.33	0.19	23.50	441.6	30.	24.62	34.96	23.45	445.9	0.136		
76.	23.23	35.02	5.40	0.15	23.90	404.2	50.	24.41	34.94	23.50	442.1	0.225		
101.	22.78	35.10	5.33	0.15	24.09	387.0	75.	23.28	35.02	23.89	405.8	0.332		
125.	22.44	35.16	5.09	0.35	24.24	374.3	100.	22.79	35.10	24.09	387.4	0.432		
151.	21.43	35.18	5.10	0.24	24.53	346.8	150.	21.48	35.18	24.52	348.0	0.617		
176.	20.03	35.06	4.78	0.55	24.82	320.2	200.	18.67	34.93	25.07	297.0	0.780		
191.	19.34	35.00	4.73		24.95	307.8	250.	15.59	34.98	25.54	252.8	0.919		
223.	16.88	34.72	4.77	0.48	25.35	270.8	300.	12.45	34.29	25.97	211.7	1.036		
251.	15.54	34.58	4.87	0.56	25.55	252.1	400.	8.61	34.08	26.48	163.2	1.225		
276.	13.62	34.40	4.86	0.82	25.82	226.0	500.	6.69	34.10	26.77	135.5	1.376		
301.	12.41	34.29	5.11	0.83	25.98	211.2	600.	5.54	34.20	27.00	114.1	1.502		
402.	8.55	34.08	4.16	1.62	26.49	162.4	700.	5.01	34.33	27.16	99.0	1.609		
501.	6.68	34.10	2.22	2.22	26.77	135.3	800.	4.75	34.44	27.28	88.5	1.704		
600.	5.54	34.20	1.16	2.09	27.00	114.1	1000.	4.12	34.50	27.40	78.4	1.873		
799.	4.75	34.44	0.95	2.55	27.28	88.6	1200.	3.58	34.54	27.49	70.2	2.023		
998.	4.13	34.50	1.08	2.36	27.40	78.4								
1198.	3.58	34.54	1.29	2.67	27.48	70.5								
1499.	2.91	34.59	1.71	2.70	27.59	60.9								

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 25, 21-59N LAT, 153-59W LONG, JULY 20, 1964, 1300 G.C.T.													
DRY BULB 24.5		WET BULB 20.5		WIND SPEED 25, DIR. 07		BAR. 19		WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	DXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.85	34.97	5.16	0.32	23.39	450.6	0.	24.85	34.97	23.39	450.6	0.000	
10.	24.84	34.98	5.20	0.20	23.40	450.0	10.	24.84	34.98	23.40	450.0	0.045	
30.Δ	24.84	34.98			23.40	450.8	20.	24.84	34.98	23.40	450.5	0.091	
51.	24.76	35.00	5.19	0.13	23.43	447.9	30.	24.84	34.98	23.40	450.8	0.136	
76.	23.76	35.08	5.39		23.79	414.6	50.	24.77	35.00	23.43	448.3	0.227	
99.	22.90	35.16	5.42		24.10	385.8	75.	23.81	35.08	23.78	416.2	0.336	
124.	22.18	35.16	5.22	0.26	24.31	367.2	100.	22.87	35.16	24.11	385.0	0.436	
149.	20.95	35.03	4.91	0.34	24.55	345.0	150.	20.90	35.03	24.56	343.6	0.620	
173.	19.83	35.02	4.77	0.31	24.84	318.0	200.	18.66	34.92	25.07	297.2	0.782	
187.	19.26	34.98	4.73	0.38	24.96	307.1	250.	15.52	34.55	25.53	253.9	0.921	
219.	17.62	34.80	4.77	0.59	25.23	281.9	300.	12.65	34.28	25.92	216.5	1.039	
246.	15.75	34.57	4.47	0.67	25.49	257.2	400.	9.28	34.13	26.41	170.3	1.234	
270.	14.40	34.45	4.58	0.72	25.70	238.0	500.	6.90	34.08	26.73	139.8	1.391	
294.	12.93	34.30	4.83	1.03	25.88	220.2	600.	5.56	34.14	26.95	119.0	1.522	
390.	9.58	34.14	4.04	1.84	26.37	174.2	700.	4.84	34.25	27.12	102.4	1.633	
488.	7.12	34.08	2.64	1.91	26.70	142.7	800.	4.47	34.38	27.26	89.9	1.731	
585.	5.70	34.12	1.48	2.55	26.92	121.9	1000.	3.95	34.48	27.40	77.5	1.900	
782.	4.53	34.36	0.90	2.61	27.24	91.6	1200.	3.45	34.53	27.49	69.6	2.049	
977.	4.02	34.48	1.15	2.92	27.39	78.4							
1174.	3.48	34.50	1.41	2.09	27.46	72.1							
1435.	2.96	34.57	1.68		27.57	62.5							

CROMWELL 6, STATION 16, 23-32N LAT, 153-55W LONG, JULY 20, 1964, 2200 G.C.T.														
DEPTH	TEMP.	SAL.	DXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	VIS. 7	
0.	24.80	34.87	5.24	0.23	23.32	456.4	0.	24.80	34.87	23.32	456.4	0.000	CLOUD TYPE 6, COVER 5	
10.	24.82	34.88	5.23		23.33	456.6	10.	24.82	34.88	23.33	456.6	0.046		
30.Δ	24.82	34.88			23.33	457.4	20.	24.82	34.88	23.33	457.0	0.092		
50.Δ	24.82	34.88			23.33	458.2	30.	24.82	34.88	23.33	457.4	0.138		
76.	24.11	35.12	5.46	0.18	23.72	421.6	50.	24.82	34.88	23.33	458.2	0.230		
101.	22.99	35.16	5.43	0.07	24.08	388.4	75.	24.15	35.11	23.70	423.4	0.341		
125.	21.94	35.17	5.40	0.18	24.36	360.1	100.	23.04	35.16	24.06	389.7	0.444		
151.	20.76	35.08	4.93	0.61	24.64	336.5	150.	20.80	35.08	24.63	337.4	0.627		
177.	19.80	35.08	5.03	0.31	24.89	313.0	200.	18.48	34.91	25.10	294.0	0.786		
192.	18.93	34.96	4.88	0.35	25.03	300.7	250.	15.15	34.54	25.60	246.8	0.922		
225.	16.98	34.74	4.92	0.47	25.34	271.7	300.	12.21	34.24	25.98	210.9	1.038		
252.	15.00	34.52	4.94	0.60	25.62	244.9	400.	9.18	34.07	26.38	173.2	1.232		
278.	13.45	34.37	4.98	0.67	25.83	224.9	500.	6.67	34.03	26.72	140.4	1.390		
302.	12.10	34.23	5.11	0.50	25.99	209.8	600.	5.37	34.09	26.94	119.7	1.521		
403.	9.13	34.07	4.73	1.47	26.39	172.3	700.	4.73	34.23	27.12	102.7	1.634		
504.	6.59	34.03	2.81	2.06	26.73	139.3	800.	4.39	34.37	27.27	89.4	1.731		
605.	5.33	34.10	1.40	2.58	26.95	118.9	1000.	3.88	34.48	27.41	77.1	1.899		
807.	4.38	34.38	1.10	2.75	27.28	88.6	1200.	3.41	34.54	27.50	68.5	2.047		
1007.	3.87	34.48	1.26	2.89	27.41	76.9								
1209.	3.40	34.54	1.40	2.54	27.50	68.4								

CROMWELL 6, STATION 17, 23-27N LAT, 150-59W LONG, JULY 21, 1964, 1700 G.C.T.														
DEPTH	TEMP.	SAL.	DXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	VIS. 7	
0.	24.46	34.92			23.46	443.0	0.	24.46	34.92	23.46	443.0	0.000	CLOUD TYPE 6, COVER 2	
9.	24.47	34.93			23.47	442.9	10.	24.47	34.93	23.47	443.0	0.045		
30.Δ	24.46	34.93			23.47	443.5	20.	24.47	34.93	23.47	443.3	0.089		
50.Δ	24.40	34.94			23.50	441.8	30.	24.46	34.93	23.47	443.5	0.134		
74.	22.78	35.29			24.24	372.2	50.	24.40	34.94	23.50	441.8	0.223		
96.	22.01	35.27			24.44	353.7	75.	22.74	35.29	24.25	371.0	0.325		
122.	21.25	35.26			24.64	335.2	100.	21.96	35.27	24.46	352.2	0.417		
147.	19.87	35.05			24.85	315.9	150.	19.63	35.03	24.90	311.7	0.584		
170.	18.03	34.87			25.18	284.8	200.	16.28	34.65	25.44	261.3	0.728		
185.	17.18	34.76			25.31	273.5	250.	13.21	34.28	25.81	225.9	0.851		
218.	15.13	34.52			25.59	246.7	300.	11.82	34.22	26.04	205.2	0.960		
244.	13.37	34.30			25.80	227.5	400.	9.05	34.08	26.41	170.2	1.149		
270.	12.82	34.25			25.87	221.1	500.	6.88	34.05	26.70	142.1	1.307		
293.	12.04	34.23			26.00	208.4	600.	5.53	34.14	26.96	118.1	1.438		
391.	9.28	34.09			26.38	173.0	700.	4.85	34.26	27.13	102.2	1.550		
490.	7.06	34.04			26.68	144.8	800.	4.50	34.36	27.25	91.1	1.647		
588.	5.64	34.13			26.93	120.4	1000.	3.91	34.49	27.41	76.7	1.817		
784.	4.56	34.35			27.23	92.7	1200.	3.41	34.54	27.50	68.5	1.964		
977.	3.97	34.48			27.40	77.8								
1178.	3.48	34.52			27.48	70.6								
1399.	2.99	34.56			27.56	63.4								

6FROM ST DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 18, 21-58N LAT, 151- 0W LONG, JULY 22, 1964, 0200 G.C.T.												
DRY BULB 23.8		WET BULB 21.8		WIND SPEED 18, DIR. 05		BAR. 16		WEATHER 01		VIS. 7		CLOUD TYPE 6, COVER 5
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.74	34.84			23.32	456.8	0.	24.74	34.84	23.32	456.8	0.000
10.	24.69	34.84			23.34	455.8	10.	24.69	34.84	23.34	455.8	0.046
50.	23.92	35.02			23.70	422.4	20.	24.58	34.87	23.39	450.5	0.092
75.	23.05	35.11			24.02	392.7	30.	24.41	34.91	23.48	443.1	0.137
100.	22.58	35.20			24.23	374.3	50.	23.92	35.02	23.70	422.4	0.224
125.	21.92	35.22			24.43	355.9	75.	23.05	35.11	24.02	392.7	0.326
151.	20.86	35.18			24.69	331.9	100.	22.58	35.20	24.23	374.3	0.423
176.	19.79	35.07			24.85	313.4	150.	20.90	35.18	24.68	332.8	0.601
190.	19.35	35.02			24.97	306.6	200.	18.91	34.96	25.04	300.2	0.761
223.	17.60	34.79			25.23	282.3	250.	15.71	34.55	25.49	257.9	0.901
250.	15.71	34.55			25.49	257.9	300.	12.33	34.24	25.95	213.5	1.020
275.	14.14	34.40			25.71	236.5	400.	8.85	34.07	26.43	167.9	1.213
299.	12.38	34.24			25.95	214.2	500.	6.74	34.04	26.72	140.4	1.368
398.	8.90	34.07			26.43	168.5	600.	5.55	34.16	26.97	116.8	1.498
498.	6.77	34.04			26.72	140.9	700.	5.02	34.29	27.14	101.6	1.609
597.	5.57	34.16			26.96	117.4	800.	4.76	34.40	27.25	91.4	1.706
795.	4.78	34.40			27.25	91.9	1000.	4.09	34.49	27.40	78.5	1.878
993.	4.11	34.49			27.35	78.9	1200.	3.53	34.55	27.50	69.4	2.028
1191.	3.56	34.54			27.49	70.2						
1490.	2.86	34.58			27.58	60.9						

CROMWELL 6, STATION 19, 20-27N LAT, 150-59W LONG, JULY 22, 1964, 1000 G.C.T.												
DRY BULB 24.0	WET BULB 22.5	WIND SPEED 07, DIR. 07	BAR. 17	WEATHER 01	VIS. 5	CLOUD TYPE 8, COVER 5						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.39	34.94			23.50	439.6	0.	24.39	34.94	23.50	439.6	0.000
9.	24.40	34.94			23.50	440.2	10.	24.40	34.94	23.50	440.1	0.044
30.Δ	24.26	34.96			23.55	435.6	20.	24.35	34.95	23.52	438.6	0.089
50.Δ	24.00	34.98			23.65	427.6	30.	24.26	34.96	23.55	435.6	0.133
74.	22.90	35.11			24.07	388.5	50.	24.00	34.98	23.65	427.6	0.220
98.	22.16	35.21			24.35	362.1	75.	22.86	35.12	24.08	387.2	0.322
123.	21.54	35.22			24.53	345.8	100.	22.10	35.21	24.37	360.5	0.416
148.	21.16	35.28			24.68	332.4	150.	21.12	35.28	24.70	331.1	0.591
172.	20.42	35.25			24.86	316.3	200.	18.69	34.96	25.09	294.8	0.748
186.	19.64	35.12			24.97	306.4	250.	14.71	34.46	25.64	243.3	0.884
220.	17.18	34.74			25.25	276.1	300.	11.06	34.13	26.11	197.9	0.995
246.	15.15	34.51			25.58	248.7	400.	8.07	34.18	26.64	147.5	1.170
271.	12.56	34.22			25.90	218.4	500.	6.70	34.25	26.89	124.1	1.307
295.	11.28	34.14			26.08	201.2	600.	6.06	34.34	27.05	110.1	1.425
395.	8.17	34.18			26.63	149.1	700.	5.49	34.40	27.16	100.0	1.531
495.	6.74	34.25			26.88	124.9	800.	5.01	34.43	27.25	92.2	1.628
593.	6.10	34.34			27.04	110.9	1000.	4.26	34.50	27.39	79.8	1.802
790.	5.05	34.43			27.24	93.0	1200.	3.63	34.55	27.48	70.7	1.955
988.	4.30	34.50			27.38	80.4						
1187.	3.65	34.54			27.48	71.3						
1486.	3.03	34.58			27.57	63.0						

CROMWELL 6, STATION 20, 18-58N LAT, 150-59W LONG, JULY 22, 1964, 1900 G.C.T.												
DRY BULB 24.8	WET BULB 23.2	WIND SPEED 07, DIR. 01	BAR. 15	WEATHER 15	VIS. 7	CLOUD TYPE 8, COVER 4						
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.08	34.72			23.13	475.3	0.	25.08	34.72	23.13	475.3	0.000
10.	25.01	34.72			23.15	473.7	10.	25.01	34.72	23.15	473.7	0.048
30.Δ	24.95	34.72			23.17	472.7	20.	24.98	34.72	23.16	473.1	0.095
50.Δ	24.84	34.72			23.20	470.3	30.	24.95	34.72	23.17	472.7	0.143
77.	22.72	34.71			23.81	412.5	50.	24.84	34.72	23.20	470.3	0.238
100.	21.95	34.96			24.22	374.6	75.	22.89	34.71	23.76	417.5	0.350
125.	21.08	35.16			24.61	338.1	100.	21.95	34.96	24.22	374.6	0.450
152.	19.60	35.02			24.90	311.5	150.	19.73	35.04	24.88	313.2	0.623
177.	17.91	34.79			25.15	288.0	200.	15.77	34.51	25.44	261.0	0.768
191.	16.55	34.60			25.33	271.0	250.	11.43	34.13	26.04	203.7	0.885
225.	13.68	34.30			25.73	233.1	300.	9.42	34.10	26.37	172.5	0.980
252.	11.27	34.12			26.06	201.6	400.	7.15	34.10	26.71	140.4	1.138
277.	10.19	34.13			26.26	182.7	500.	6.09	34.20	26.93	120.3	1.269
302.	9.36	34.10			26.38	171.8	600.	5.36	34.30	27.10	104.7	1.383
403.	7.10	34.10			26.72	139.7	700.	4.89	34.39	27.23	92.8	1.483
504.	6.06	34.20			26.93	119.6	800.	4.54	34.47	27.33	84.1	1.572
604.	5.34	34.30			27.10	104.2	1000.	3.96	34.51	27.42	75.6	1.733
805.	4.53	34.47			27.33	83.7	1200.	3.44	34.56	27.51	67.5	1.878
1006.	3.94	34.51			27.42	75.5	1500.	2.85	34.61	27.61	58.7	2.071
1206.	3.43	34.56			27.52	67.3						
1509.	2.83	34.61			27.61	58.5						

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 21, 17-26N LAT, 151- 1W LONG, JULY 23, 1964, 0500 G.C.T.												
DRY BULB 25.7		WET BULB 23.1		WIND SPEED 07, DIR. 05		BAR. 14		WEATHER 01		VIS. 8		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.88	34.76			22.91	495.9	0.	25.88	34.76	22.91	495.9	0.000
10.	25.44	34.78			23.06	481.9	10.	25.44	34.78	23.06	481.9	0.049
30.Δ	25.32	34.79			23.11	478.4	20.	25.37	34.79	23.09	479.9	0.098
50.	24.28	34.82			23.44	447.1	30.	25.32	34.79	23.11	478.4	0.146
76.	23.01	35.02			23.97	398.1	50.	24.28	34.82	23.44	447.1	0.239
100.	22.50	35.12			24.19	377.8	75.	23.05	35.01	23.95	399.8	0.346
126.	21.58	35.12			24.45	354.2	100.	22.50	35.12	24.19	377.8	0.444
151.	19.96	34.97			24.77	324.1	150.	20.04	34.98	24.75	325.4	0.621
175.	17.74	34.75			25.16	286.9	200.	15.35	34.44	25.49	256.4	0.768
190.	16.23	34.54			25.36	268.3	250.	11.80	34.20	26.03	205.0	0.884
225.	13.43	34.29			25.78	228.9	300.	10.05	34.27	26.40	170.2	0.979
251.	11.74	34.20			26.04	204.1	400.	8.30	34.33	26.72	140.1	1.135
277.	10.52	34.22			26.27	181.7	500.	7.47	34.44	26.93	121.6	1.267
302.	10.02	34.28			26.41	169.4	600.	6.46	34.43	27.07	109.2	1.384
402.	8.27	34.33			26.73	139.7	700.	5.75	34.45	27.17	99.6	1.489
504.	7.44	34.44			26.94	121.0	800.	5.22	34.48	27.26	91.7	1.586
604.	6.42	34.43			27.07	108.8	1000.	4.24	34.50	27.38	79.8	1.759
805.	5.20	34.48			27.26	91.4	1200.	3.66	34.54	27.48	71.6	1.913
1007.	4.21	34.50			27.35	79.5	1500.	2.87	34.58	27.58	61.2	2.115
1208.	3.64	34.54			27.48	71.3						
1510.	2.85	34.58			27.59	60.9						

CROMWELL 6, STATION 22, 15-59N LAT, 150-59W LONG, JULY 23, 1964, 1400 G.C.T.														
DRY BULB 25.8	WET BULB 22.9	WIND SPEED 14, DIR. 11	BAR. 13	WEATHER 01	VIS. 7	CLOUD TYPE 4,	COVER 1							
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	26.03	34.68			22.80	506.1	0.	26.03	34.68	22.80	506.1	0.000		
9.	25.97	34.68			22.82	504.7	10.	25.96	34.68	22.82	504.6	0.051		
47.	25.63	34.68			22.93	496.1	20.	25.88	34.67	22.84	503.2	0.102		
72.	25.36	34.78			23.09	482.0	30.	25.80	34.67	22.87	501.2	0.152		
95.	22.88	35.00			23.99	396.7	50.	25.67	34.69	22.92	496.9	0.253		
118.	22.24	35.13			24.27	370.8	75.	25.04	34.81	23.20	470.9	0.375		
143.	20.64	35.12			24.70	330.2	100.	22.70	35.04	24.07	389.1	0.483		
167.	18.70	34.94			25.07	295.7	150.	20.07	35.08	24.82	319.2	0.661		
182.	17.69	34.83			25.24	280.1	200.	15.44	34.54	25.54	251.6	0.805		
214.	13.58	34.31			25.76	230.1	250.	11.20	34.27	26.19	189.3	0.917		
240.	11.52	34.20			26.08	199.9	300.	9.89	34.40	26.52	158.6	1.004		
264.	10.91	34.38			26.33	176.4	400.	8.53	34.51	26.83	130.3	1.150		
286.	10.14	34.38			26.46	163.7	500.	7.17	34.44	26.97	117.1	1.275		
385.	8.76	34.52			26.80	133.0	600.	6.26	34.46	27.12	104.0	1.387		
483.	7.37	34.44			26.95	119.6	700.	5.68	34.49	27.21	96.0	1.488		
575.	6.41	34.46			27.05	106.1	800.	5.24	34.51	27.28	90.0	1.582		
771.	5.38	34.50			27.26	91.8	1000.	4.40	34.53	27.39	79.3	1.753		
966.	4.53	34.53			27.38	80.9	1200.	3.72	34.56	27.49	70.9	1.905		
1160.	3.86	34.55			27.46	72.9								
1452.	3.06	34.59			27.57	62.4								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.18

CROMWELL 6, STATION 23, 14-28N LAT, 150-59W LONG, JULY 23, 1964, 2200 G.C.T.														
DRY BULB 26.2	WET BULB 23.1	WIND SPEED 08, DIR. 09	BAR. 15	WEATHER 02	VIS. 8	CLOUD TYPE 8,	COVER 3							
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	26.48	34.46			22.50	535.4	0.	26.48	34.46	22.50	535.4	0.000		
10.	26.25	34.44			22.55	530.4	10.	26.25	34.44	22.55	530.4	0.054		
30.Δ	26.14	34.45			22.60	527.2	20.	26.17	34.44	22.58	528.2	0.107		
50.Δ	26.04	34.47			22.64	523.5	30.	26.14	34.45	22.60	527.2	0.160		
76.	24.98	34.58			23.05	485.5	50.	26.04	34.47	22.64	523.5	0.266		
100.	22.85	34.82			23.86	409.0	75.	25.04	34.57	23.03	487.7	0.393		
126.	21.62	35.02			24.36	362.4	100.	22.85	34.82	23.86	409.0	0.506		
151.	19.52	34.91			24.84	317.4	150.	19.61	34.92	24.82	319.1	0.690		
176.	17.39	34.72			25.23	281.0	200.	14.32	34.41	25.68	237.4	0.830		
190.	15.56	34.50			25.48	256.5	250.	10.98	34.41	26.34	175.1	0.934		
224.	12.02	34.34			26.09	198.3	300.	9.76	34.49	26.61	149.6	1.016		
249.	11.02	34.41			26.33	175.8	400.	8.28	34.46	26.83	130.2	1.157		
276.	10.08	34.40			26.49	161.0	500.	7.14	34.45	26.99	115.8	1.281		
300.	9.76	34.49			26.61	149.6	600.	6.44	34.48	27.11	105.3	1.393		
401.	8.27	34.46			26.83	130.1	700.	5.82	34.50	27.20	96.6	1.495		
501.	7.13	34.45			26.95	115.7	800.	5.29	34.52	27.28	89.6	1.589		
601.	6.43	34.48			27.11	105.2	1000.	4.47	34.54	27.39	79.7	1.760		
801.	5.29	34.52			27.28	89.6	1200.	3.84	34.57	27.48	71.5	1.914		
1000.	4.47	34.54			27.35	79.7								
1200.	3.84	34.57			27.48	71.5								
1499.	3.03	34.60			27.59	61.6								

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 24, 13- 2N LAT, 151- 4W LONG, JULY 24, 1964, 0700 G.C.T.													
DRY BULB 26.5		WET BULB 24.0		WIND SPEED 13, DIR. 07		BAR. 14		WEATHER 02		VIS. 8		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	26.49	34.30			22.37	547.2	0.	26.49	34.30	22.37	547.2	0.000	
9.	26.47	34.31			22.39	546.3	10.	26.44	34.31	22.40	545.6	0.055	
49.	24.26	34.40			23.13	476.7	20.	26.06	34.30	22.51	535.5	0.109	
76.	22.44	34.84			23.99	395.5	30.	25.56	34.31	22.67	520.0	0.163	
100.	20.02	34.98			24.76	323.0	50.	24.20	34.42	23.16	474.0	0.263	
124.	17.48	34.72			25.20	281.4	75.	22.52	34.82	23.96	398.6	0.373	
151.	12.99	34.30			25.87	217.7	100.	20.02	34.98	24.76	323.0	0.464	
174.	11.35	34.26			26.17	189.4	150.	13.15	34.31	25.85	219.7	0.600	
190.	11.07	34.36			26.28	179.0	200.	11.01	34.44	26.36	172.1	0.699	
223.	10.94	34.62			26.51	158.3	250.	10.71	34.70	26.61	149.1	0.780	
250.	10.71	34.70			26.61	149.1	300.	10.12	34.68	26.70	141.6	0.853	
275.	10.45	34.70			26.66	145.2	400.	8.86	34.61	26.86	128.2	0.989	
300.	10.12	34.68			26.70	141.6	500.	7.70	34.55	26.99	116.6	1.113	
401.	8.85	34.61			26.86	128.0	600.	6.73	34.52	27.10	106.3	1.226	
502.	7.68	34.57			26.99	116.4	700.	6.00	34.52	27.20	97.5	1.329	
602.	6.71	34.52			27.10	106.1	800.	5.43	34.54	27.28	89.9	1.423	
802.	5.42	34.54			27.28	89.8	1000.	4.52	34.56	27.40	78.9	1.594	
1002.	4.51	34.56			27.40	78.8	1200.	3.85	34.58	27.49	70.8	1.746	
1202.	3.84	34.58			27.49	70.8	1500.	3.14	34.60	27.57	63.0	1.949	
1503.	3.14	34.60			27.57	63.0							
TEMPERATURE ERROR TERM AT 30. METERS IS 0.12													

TEMPERATURE ERROR TERM AT 30. METERS IS 0.12

CROMWELL 6, STATION 25, 11-30N LAT, 151- 0W LONG, JULY 24, 1964, 1600 G.C.T.													
DRY BULB 26.6		WET BULB 24.6		WIND SPEED 17, DIR. 05		BAR. 13		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.17	34.07			21.99	584.4	0.	27.17	34.07	21.99	584.4	0.000	
9.	27.19	34.06			21.97	586.1	10.	27.19	34.06	21.97	586.3	0.059	
30.Δ	27.20	34.06			21.97	587.3	20.	27.21	34.06	21.96	587.3	0.118	
50.Δ	27.10	34.08			22.02	583.6	30.	27.20	34.06	21.97	587.3	0.177	
75.	21.67	34.50			23.95	399.4	50.	27.10	34.08	22.02	583.6	0.295	
99.	13.20	34.38			25.89	214.5	75.	21.67	34.50	23.95	399.4	0.419	
125.	11.71	34.52			26.29	177.1	100.	13.05	34.38	25.92	211.6	0.496	
151.	11.75	34.71			26.43	164.5	150.	11.74	34.70	26.43	164.7	0.591	
175.	11.05	34.66			26.52	156.2	200.	10.65	34.67	26.60	149.2	0.670	
190.	10.88	34.68			26.57	152.1	250.	9.82	34.63	26.71	139.2	0.743	
223.	10.10	34.63			26.67	143.3	300.	9.25	34.60	26.78	133.2	0.811	
250.	9.82	34.63			26.71	139.2	400.	8.24	34.56	26.91	122.2	0.940	
276.	9.56	34.62			26.75	136.2	500.	7.20	34.53	27.04	110.8	1.058	
300.	9.25	34.60			26.78	133.2	600.	6.33	34.52	27.15	100.8	1.164	
401.	8.23	34.56			26.91	122.1	700.	5.65	34.52	27.24	92.9	1.262	
502.	7.18	34.53			27.04	110.5	800.	5.11	34.53	27.31	86.6	1.353	
602.	6.31	34.52			27.15	100.6	1000.	4.30	34.54	27.41	77.7	1.519	
803.	5.10	34.53			27.31	86.4	1200.	3.65	34.56	27.49	70.1	1.669	
1004.	4.29	34.54			27.41	77.5							
1194.	3.69	34.56			27.49	70.3							
1413.	3.08	34.58			27.56	63.1							

CROMWELL 6, STATION 26, 9-58N LAT, 147-58W LONG, JULY 25, 1964, 1100 G.C.T.													
DRY BULB 25.4		WET BULB 24.0		WIND SPEED 12, DIR. 16		BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 6, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	27.02	34.06	4.92	0.24	22.03	580.6	0.	27.02	34.06	22.03	580.6	0.000	
10.	26.98	34.06	5.02	0.28	22.04	579.8	10.	26.98	34.06	22.04	579.8	0.058	
20. Δ	26.88	34.06			22.07	577.1	20.	26.88	34.06	22.07	577.1	0.117	
30. Δ	26.80	34.09			22.12	572.9	30.	26.80	34.09	22.12	572.9	0.175	
51.	25.51	34.42	5.20	1.16	22.77	511.5	50.	25.61	34.40	22.73	515.7	0.284	
76.	21.57	34.59	5.38	0.58	24.05	390.3	75.	21.76	34.59	23.99	395.5	0.399	
102.	16.14	34.42	4.04	1.07	25.29	272.3	100.	16.54	34.43	25.21	280.3	0.484	
126.	13.09	34.62	0.88	1.88	26.10	195.5	150.	11.78	34.70	26.41	166.0	0.597	
153.	11.70	34.70	0.90	2.30	26.43	164.3	200.	10.89	34.72	26.60	149.7	0.676	
176.	11.22	34.72	0.66	2.12	26.54	154.8	250.	10.26	34.72	26.71	139.9	0.749	
192.	11.00	34.72	0.32	2.41	26.58	151.3	300.	9.82	34.70	26.77	135.1	0.819	
226.	10.56	34.72	0.56	2.34	26.66	144.5	400.	8.93	34.65	26.88	126.1	0.950	
252.	10.24	34.72	0.48	2.48	26.71	139.6	500.	7.72	34.57	27.00	115.7	1.072	
278.	9.99	34.70	0.63	2.38	26.74	137.5	600.	6.68	34.53	27.11	104.8	1.184	
304.	9.79	34.70	0.67	2.14	26.77	134.7	700.	5.83	34.52	27.22	95.3	1.285	
404.	8.89	34.65	0.24	2.47	26.86	125.8	800.	5.15	34.53	27.31	87.1	1.377	
507.	7.63	34.56	0.35	2.47	27.00	115.0	1000.	4.18	34.56	27.44	74.8	1.541	
607.	6.61	34.53	0.58	2.38	27.12	104.1	1200.	3.56	34.59	27.53	66.7	1.684	
809.	5.10	34.53	0.90	2.79	27.31	86.5	1500.	2.81	34.61	27.61	58.2	1.874	
1011.	4.14	34.56	1.34	2.90	27.44	74.3							
1212.	3.53	34.59	1.70	2.57	27.53	66.3							
1515.	2.78	34.61	1.90	2.52	27.62	57.9							

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 6, STATION 27, 11-25N LAT, 147-58W LONG, JULY 25, 1964, 2000 G.C.T.					WIND SPEED 12, DIR. 06 BAR. 16 WEATHER 20 VIS. 4 CLOUD TYPE 9, COVER 9									
CRY BULB 24.9	WET BULB 24.0													
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	26.90	33.88	4.85	0.25	21.93	589.9	0.	26.90	33.88	21.93	589.9	0.000		
9.	26.87	33.89	5.08	0.46	21.95	586.6	10.	26.87	33.90	21.95	588.2	0.059		
30.Δ	26.60	34.14			22.22	563.3	20.	26.80	33.99	22.04	579.6	0.118		
50.Δ	25.50	34.51			22.84	504.7	30.	26.60	34.14	22.22	563.3	0.176		
48.	25.54	34.51	5.13	0.70	22.83	505.8	50.	25.50	34.51	22.84	504.7	0.283		
72.	21.18	34.61	5.34	0.30	24.17	378.5	75.	20.53	34.59	24.33	363.4	0.393		
95.	16.49	34.43	3.51	1.07	25.22	279.1	100.	15.70	34.41	25.38	263.6	0.472		
117.	13.58	34.38	2.01	1.31	25.81	222.4	150.	11.57	34.49	26.30	177.0	0.583		
142.	11.84	34.44	1.21	2.03	26.20	185.7	200.	10.78	34.64	26.55	153.6	0.666		
163.	11.32	34.58	0.41	1.72	26.41	166.6	250.	10.13	34.62	26.65	144.9	0.741		
176.	11.19	34.62	0.34		26.46	161.6	300.	9.66	34.62	26.73	138.2	0.813		
206.	10.68	34.64	0.26	2.49	26.57	152.0	400.	8.39	34.55	26.88	125.5	0.946		
230.	10.46	34.64	0.19	2.03	26.61	148.7	500.	7.31	34.52	27.02	113.4	1.066		
253.	10.08	34.62	0.18		26.66	144.3	600.	6.44	34.52	27.14	102.4	1.175		
278.	9.90	34.63	0.16		26.70	141.1	700.	5.69	34.52	27.23	93.5	1.274		
369.	6.82	34.57	0.25		26.83	129.8	800.	5.08	34.53	27.31	86.4	1.365		
454.	7.76	34.52	0.42		26.95	118.9	1000.	4.22	34.56	27.43	75.5	1.529		
544.	6.92	34.52	0.42	2.26	27.07	108.2	1200.	3.52	34.59	27.53	66.4	1.673		
723.	5.53	34.52	0.65	2.87	27.25	91.8								
904.	4.59	34.54	0.94	3.08	27.38	80.3								
1083.	3.94	34.57	1.30	2.60	27.47	71.7								
1285.	3.28	34.60	1.66	2.65	27.56	63.1								

CROMWELL 6, STATION 28, 12-59N LAT, 148- 6W LONG, JULY 26, 1964, 0600 G.C.T.					WIND SPEED 19, DIR. 05 BAR. 14 WEATHER 01 VIS. 8 CLOUD TYPE 4, COVER 3									
CRY BULB 26.3	WET BULB 23.0													
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	26.74	34.14	4.96	0.27	22.17	566.3	0.	26.74	34.14	22.17	566.3	0.000		
10.	26.73	34.14	5.05	0.24	22.18	566.4	10.	26.73	34.14	22.18	566.4	0.057		
20.Δ	26.73	34.14			22.18	566.8	20.	26.73	34.14	22.18	566.8	0.114		
30.Δ	25.30	34.50			22.85	498.7	30.	25.30	34.50	22.89	498.7	0.168		
51.	25.04	34.54	5.26	0.24	23.00	489.1	50.	25.02	34.55	23.02	487.9	0.267		
78.	23.44	34.63	5.49	0.26	23.55	438.2	75.	23.68	34.62	23.47	445.5	0.385		
103.	21.01	34.70	4.92	0.28	24.28	368.7	100.	21.34	34.70	24.19	377.6	0.488		
126.	18.30	34.66	4.34	0.77	24.96	305.0	150.	13.30	34.30	25.81	223.3	0.640		
153.	12.74	34.27	2.74	1.64	25.90	215.2	200.	11.47	34.66	26.45	163.9	0.737		
178.	12.04	34.59	0.76	2.88	26.28	179.2	250.	10.29	34.63	26.64	146.8	0.816		
193.	11.73	34.67	0.83	2.45	26.40	168.1	300.	9.85	34.65	26.72	139.6	0.888		
227.	10.52	34.60	0.58	2.30	26.57	152.6	400.	8.68	34.59	26.87	126.7	1.022		
253.	10.28	34.64	0.72	2.41	26.64	146.2	500.	7.67	34.54	26.99	116.6	1.145		
280.	10.09	34.66	0.69	2.22	26.65	142.1	600.	6.75	34.52	27.10	106.6	1.258		
305.	9.78	34.64	0.73	2.30	26.73	138.9	700.	5.94	34.52	27.20	97.0	1.361		
406.	8.62	34.59	0.67	2.44	26.88	126.0	800.	5.26	34.53	27.29	88.5	1.454		
509.	7.58	34.54	0.91	2.43	27.00	115.7	1000.	4.31	34.56	27.42	76.4	1.621		
609.	6.67	34.52	0.79	2.52	27.11	105.7	1200.	3.70	34.58	27.50	69.1	1.769		
811.	5.19	34.53	0.64	2.57	27.30	87.6	1500.	2.96	34.60	27.59	60.8	1.966		
1014.	4.26	34.56	0.94	2.65	27.43	75.8								
1216.	3.66	34.58	1.47	2.81	27.51	68.7								
1520.	2.93	34.60	1.96	2.69	27.59	60.5								

TEMPERATURE ERROR TEMP AT 150. METERS IS 0.12

CROMWELL 6, STATION 29, 14-41N LAT, 148- 7W LONG, JULY 26, 1964, 1600 G.C.T.					WIND SPEED 16, DIR. 05 BAR. 14 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 6									
CRY BULB 25.2	WET BULB 21.5													
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
1.	25.64	34.58	5.14	0.27	22.85	501.8	0.	25.64	34.58	22.85	501.8	0.000		
9.	25.66	34.57	5.05		22.84	503.4	10.	25.66	34.57	22.84	503.5	0.051		
30.Δ	25.65	34.57			22.84	504.0	20.	25.66	34.57	22.83	504.1	0.101		
50.Δ	25.60	34.57			22.85	503.3	30.	25.65	34.57	22.84	504.0	0.152		
73.	25.04	34.56	5.24	0.23	23.02	488.5	50.	25.60	34.57	22.85	503.3	0.254		
98.	22.87	34.64	5.39	0.23	23.72	422.5	75.	24.88	34.56	23.07	483.9	0.378		
121.	21.51	34.82	5.22		24.24	373.8	100.	22.78	34.66	23.76	418.7	0.492		
146.	17.44	34.62	4.29	0.76	25.14	288.4	150.	16.88	34.57	25.23	279.2	0.667		
170.	14.54	34.39	3.67	1.10	25.62	242.5	200.	12.39	34.39	26.06	200.7	0.788		
183.	13.52	34.40	1.86	1.73	25.84	221.5	250.	10.70	34.49	26.45	164.4	0.880		
217.	11.54	34.40	1.59		26.23	185.0	300.	9.70	34.50	26.63	147.9	0.959		
243.	10.82	34.48	1.13	2.25	26.42	167.0	400.	9.03	34.60	26.82	131.8	1.100		
268.	10.41	34.50	0.99		26.51	159.0	500.	7.85	34.55	26.97	118.5	1.227		
291.	9.81	34.49	0.83	2.53	26.61	150.2	600.	6.97	34.52	27.06	109.9	1.342		
390.	9.15	34.60	0.33	2.70	26.80	133.3	700.	6.17	34.51	27.16	101.1	1.449		
488.	7.97	34.56	0.40	2.44	26.95	119.7	800.	5.50	34.51	27.25	92.9	1.547		
588.	7.07	34.52	0.42	2.67	27.05	111.0	1000.	4.54	34.54	27.39	80.5	1.722		
783.	5.60	34.51	1.08		27.24	94.2	1200.	3.83	34.56	27.48	71.8	1.876		
982.	4.61	34.54	0.99	2.77	27.38	81.3								
1179.	3.93	34.56	1.26	2.83	27.47	73.2								
1476.	3.17	34.59	1.99	3.11	27.56	63.9								

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 6, STATION 30, 15-59N LAT, 147-58W LONG, JULY 27, 1964, OCCO G.C.T. DRY BULB 25.6 WET BULB 21.5 WIND SPEED 16, DIR. 05 BAR. 14 WEATHER 01 VIS. 8 CLOUD TYPE 6, COVER 2												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
C.	25.94	34.52	5.02	0.31	22.71	515.0	C.	25.94	34.52	22.71	515.0	0.000
9.	25.93	34.52	5.07	0.22	22.71	515.0	10.	25.92	34.52	22.72	514.9	0.052
71.	25.11	34.57	5.11	0.27	23.00	489.8	20.	25.86	34.53	22.74	512.8	0.104
93.	24.66	34.58	5.20	0.34	23.15	476.9	30.	25.76	34.53	22.78	509.9	0.155
117.	22.32	34.56	5.34	0.45	23.81	414.0	50.	25.50	34.55	22.87	501.7	0.257
141.	19.52	34.70	4.91	0.43	24.68	332.2	75.	25.09	34.57	23.01	489.2	0.382
164.	16.06	34.46	3.31	0.98	25.34	269.5	100.	24.10	34.57	23.31	462.1	0.502
177.	14.17	34.35	3.11	1.44	25.67	238.0	150.	18.20	34.62	24.95	306.1	0.695
209.	11.73	34.20	3.43	1.56	26.04	202.9	200.	12.18	34.22	25.97	209.7	0.825
235.	10.82	34.30	2.11	1.62	26.28	180.1	250.	10.39	34.33	26.38	171.2	0.921
258.	10.21	34.34	1.68	2.28	26.42	167.2	300.	9.65	34.47	26.62	149.0	1.002
281.	9.90	34.44	1.18	2.29	26.55	155.2	400.	8.40	34.47	26.82	131.3	1.143
395.	8.46	34.47	0.54	2.59	26.81	132.2	500.	7.21	34.45	26.98	116.8	1.269
494.	7.27	34.45	0.53	3.07	26.97	117.6	600.	6.34	34.46	27.10	105.5	1.381
593.	6.40	34.46	0.51	2.88	27.10	106.1	700.	5.72	34.48	27.20	97.2	1.463
623.*	6.17	34.46	0.47	2.41	27.13	103.4	800.	5.26	34.50	27.27	90.5	1.518
789.	5.31	34.50	0.76	2.46	27.26	91.2	1000.	4.48	34.52	27.37	81.4	1.752
990.	4.45	34.52	1.20	2.69	27.38	80.9	1200.	3.60	34.57	27.51	68.6	1.904
1188.	3.81	34.56	1.26	2.69	27.48	71.8						
1200.**	3.60**	34.57**			27.51	68.6						

CROMWELL 6, STATION 31, 17-31N LAT, 147-58W LONG, JULY 27, 1964, ICCO G.C.T.														
DRY BULB 24.5		WET BULB 21.2		WIND SPEED 20, DIR. 05		BAR. 16		WEATHER 03		VIS.		CLOUD TYPE , COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH		
C.	25.24	34.62	5.03	0.45	23.00	487.2	C.	25.24	34.62	23.00	487.2	0.000		
11.	25.27	34.62	5.05	0.30	22.55	488.5	10.	25.27	34.62	22.99	488.4	0.049		
50.Δ	25.00	34.64			23.09	480.7	20.	25.32	34.62	22.98	490.5	0.098		
76.	23.71	34.72	5.32	0.16	23.54	439.2	30.	25.30	34.62	22.98	490.1	0.148		
101.	22.48	34.96	5.26	0.17	24.07	388.9	50.	25.00	34.64	23.09	480.7	0.246		
125.	21.80	35.07	5.10	0.26	24.35	363.6	75.	23.77	34.71	23.52	441.1	0.362		
151.	20.78	35.09	5.10	0.26	24.64	336.3	100.	22.52	34.95	24.05	390.7	0.466		
176.	18.90	34.88	4.55	0.50	24.97	305.2	150.	20.83	35.09	24.63	337.4	0.650		
190.	17.71	34.73	4.34	0.65	25.16	288.1	200.	16.47	34.59	25.34	270.5	0.803		
224.	13.57	34.29	3.57	1.21	25.75	231.6	250.	11.93	34.21	26.01	206.9	0.924		
252.	11.84	34.21	3.06	1.62	26.03	205.2	300.	9.83	34.24	26.41	169.3	1.018		
277.	10.53	34.21	2.96	1.58	26.26	182.6	400.	8.74	34.46	26.75	137.5	1.173		
301.	9.81	34.24	2.56	2.04	26.41	168.8	500.	7.73	34.49	26.93	121.5	1.304		
401.	8.74	34.46	0.57	2.50	26.76	137.4	600.	6.63	34.46	27.07	109.4	1.420		
502.	7.71	34.49	0.25	2.81	26.94	121.2	700.	5.89	34.47	27.17	100.1	1.526		
602.	6.61	34.46	0.42	2.66	27.07	109.2	800.	5.36	34.49	27.25	92.8	1.624		
803.	5.35	34.49	0.73	2.54	27.25	92.6	1000.	4.47	34.51	27.37	82.0	1.801		
1004.	4.46	34.51	0.98	2.74	27.37	81.9	1200.	3.79	34.54	27.46	73.2	1.958		
1204.	3.78	34.54	1.18	2.83	27.46	73.0								
1438.	3.04	34.58	1.52	2.69	27.57	62.8								

TEMPERATURE ERROR TEMP AT 200. METERS IS 0.14

CROMWELL 6, STATION 32, 19-2N LAT, 148- CW LONG, JULY 27, 1964, 1800 G.C.T.													
DRY BULB 25.2		WET BULB 22.2		WIND SPEED 20, DIR. 05		BAR. 15		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
C.	25.26	34.67	5.12	0.22	23.03	484.1	0.	25.26	34.67	23.03	484.1	0.000	
11.	25.28	34.67	5.15	0.24	23.03	485.2	10.	25.28	34.67	23.03	485.1	0.049	
30.Δ	25.28	34.68			23.04	485.2	20.	25.29	34.67	23.03	485.3	0.098	
50.Δ	25.24	34.68			23.05	484.8	30.	25.28	34.68	23.04	485.2	0.147	
77.	24.70	34.69	5.15	0.17	23.22	469.5	50.	25.24	34.68	23.05	484.8	0.244	
102.	22.99	34.97	5.41	0.27	23.93	402.1	75.	24.77	34.68	23.19	472.0	0.365	
126.	22.33	35.06	5.36	0.23	24.19	378.5	100.	23.13	34.95	23.88	407.6	0.476	
151.	21.45	35.16	5.25	0.19	24.51	348.8	150.	21.50	35.16	24.50	350.1	0.666	
176.	19.52	35.00	4.75	0.48	24.91	311.8	200.	17.76	34.76	25.16	287.6	0.827	
191.	18.54	34.87	4.64	0.35	25.06	297.7	250.	12.83	34.23	25.85	222.6	0.956	
225.	15.30	34.44	4.06	1.02	25.49	256.4	300.	10.44	34.18	26.26	183.7	1.058	
251.	12.74	34.22	3.96	1.11	25.86	221.3	400.	7.87	34.22	26.70	141.9	1.223	
277.	11.28	34.20	3.75	1.37	26.12	196.4	500.	6.50	34.31	26.96	117.4	1.353	
301.	10.41	34.18	3.43	1.71	26.26	183.3	600.	5.69	34.38	27.12	102.8	1.465	
402.	7.83	34.22	1.91	2.13	26.71	141.2	700.	5.16	34.43	27.23	93.3	1.564	
502.	6.48	34.31	0.88	2.77	26.97	117.0	800.	4.77	34.47	27.30	86.7	1.655	
603.	5.67	34.38	0.68	2.77	27.13	102.4	1000.	4.13	34.52	27.41	77.1	1.820	
804.	4.76	34.47	0.88		27.30	86.5	1200.	3.57	34.54	27.49	70.5	1.970	
1004.	4.12	34.52	1.33	2.75	27.41	76.9	1500.	2.87	34.57	27.58	61.9	2.171	
1205.	3.56	34.54	1.42	2.57	27.49	70.3							
1506.	2.86	34.57	1.74	2.78	27.58	61.8							

ΔFROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 6, STATION 33, 20-30N LAT, 147-58W LONG, JULY 28, 1964, C300 G.C.T. DRY BULB 25.0 WET BULB 21.1 WIND SPEED 23, DIR. C6 BAR. 16 WEATHER 03 VIS. 7 CLCUD TYPE 6, COVER 8												
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH.
1.	24.81	34.85	5.04	0.09	23.31	458.2	0.	24.81	34.85	23.31	458.1	0.000
10.	24.82	34.85	5.11	0.18	23.30	458.8	10.	24.82	34.85	23.30	458.8	0.046
20.Δ	24.82	34.85			23.30	459.2	20.	24.82	34.85	23.30	459.2	0.092
30.Δ	24.82	34.85			23.30	459.6	30.	24.82	34.85	23.30	459.6	0.139
40.	24.15	35.10	5.34		23.69	423.1	50.	24.08	35.10	23.72	420.7	0.227
73.	22.38	35.14	5.49	0.23	24.24	372.1	75.	22.30	35.14	24.26	369.9	0.327
98.	21.70	35.18	5.34	0.20	24.46	352.0	100.	21.66	35.19	24.47	350.5	0.418
123.	21.11	35.23	5.24	0.27	24.66	333.8	150.	19.98	35.10	24.86	314.9	0.585
148.	20.06	35.11	4.26	0.29	24.85	316.4	200.	17.47	34.78	25.25	279.0	0.735
173.	18.91	34.98	4.18	0.52	25.05	298.1	250.	13.33	34.29	25.80	227.5	0.863
186.	18.20	34.88	4.70	0.57	25.15	288.7	300.	10.58	34.14	26.20	189.3	0.968
219.	16.26	34.63	4.73	0.55	25.42	263.3	400.	7.86	34.08	26.59	152.0	1.140
246.	13.73	34.33	4.87	0.68	25.74	232.5	500.	6.19	34.13	26.86	126.6	1.281
271.	11.57	34.15	4.74		26.03	205.2	600.	5.71	34.31	27.06	108.3	1.399
296.	10.71	34.14	4.73	1.17	26.18	191.3	700.	5.21	34.40	27.19	96.4	1.503
396.	7.95	34.08	3.18	2.09	26.58	153.3	800.	4.76	34.44	27.28	88.4	1.596
495.	6.23	34.12	1.72	1.50	26.85	127.6	1000.	4.14	34.52	27.41	77.1	1.764
594.	5.74	34.30	0.72	3.23	27.05	109.2	1200.	3.57	34.55	27.50	69.3	1.912
794.	4.78	34.44	0.81		27.28	88.9						
994.	4.16	34.52	1.04	2.56	27.41	77.3						
1194.	3.59	34.54	1.21	2.61	27.48	70.6						
1459.	2.86	34.58	1.63	2.95	27.58	60.8						

CROMWELL 6, STATION 34, 22- IN LAT, 147-57W LONG, JULY 28, 1964, 1200 G.C.T. DRY BULB 23.5 WET BULB 19.8 WIND SPEED 20, DIR. 07 BAR. 17 WEATHER 02 VIS. 6 CLOUD TYPE 6, COVER 7												
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH
0.	24.09	34.96	5.23	0.36	23.61	429.6	0.	24.09	34.96	23.61	429.6	0.000
10.	24.13	34.96	5.29		23.59	431.1	10.	24.13	34.96	23.59	431.1	0.043
20.Δ	24.12	34.96			23.60	431.2	20.	24.12	34.96	23.60	431.2	0.087
30.Δ	24.10	34.96			23.60	431.1	30.	24.10	34.96	23.60	431.1	0.130
50.	22.32	35.06	5.61	0.18	24.19	375.4	50.	22.32	35.06	24.19	375.4	0.211
75.	21.58	35.12	5.50	0.20	24.45	352.3	75.	21.58	35.12	24.45	352.3	0.303
99.	21.20	35.18	5.52	0.30	24.60	338.8	100.	21.18	35.18	24.60	338.2	0.390
123.	20.81	35.24	5.51	0.22	24.75	325.2	150.	20.28	35.24	24.89	312.8	0.554
148.	20.32	35.24	5.38	0.24	24.88	313.6	200.	18.70	35.00	25.11	292.8	0.707
172.	19.84	35.19	5.22	0.29	24.97	305.9	250.	14.54	34.40	25.63	243.8	0.842
187.	19.49	35.13	5.22	0.26	25.01	302.0	300.	11.26	34.09	26.04	204.6	0.955
220.	17.10	34.74	5.05	0.57	25.31	274.2	400.	8.16	34.11	26.57	154.5	1.136
245.	15.04	34.46	5.02	0.64	25.57	250.0	500.	6.76	34.20	26.85	128.7	1.279
271.	12.62	34.20	4.92	0.82	25.87	221.0	600.	5.63	34.27	27.04	110.1	1.400
295.	11.47	34.10	5.00	1.02	26.01	207.6	700.	5.07	34.36	27.18	97.6	1.505
394.	8.27	34.10	3.07	2.16	26.55	156.5	800.	4.77	34.44	27.28	89.0	1.599
493.	6.86	34.20	1.29	2.48	26.83	130.3	1000.	4.09	34.49	27.40	78.4	1.769
590.	5.70	34.26	0.83	2.66	27.03	111.6	1200.	3.54	34.53	27.48	70.7	1.920
786.	4.82	34.43	0.84	2.89	27.27	90.0						
982.	4.14	34.45	1.14	2.55	27.35	79.2						
1178.	3.61	34.52	1.27	2.86	27.47	72.2						
1474.	2.97	34.57	1.60	2.73	27.57	62.9						

CROMWELL 6, STATION 35, 23-31N LAT, 147-57W LONG, JULY 28, 1964, 2100 G.C.T. DRY BULB 24.9 WET BULB 19.4 WIND SPEED 18, DIR. C6 BAR. 21 WEATHER 01 VIS. 7 CLCUD TYPE 8, COVER 1												
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN-DEPTH
0.	24.18	35.04	5.19	0.26	23.64	426.4	0.	24.18	35.04	23.64	426.4	0.000
10.	24.21	35.04	5.21	0.19	23.63	427.6	10.	24.21	35.04	23.63	427.6	0.043
30.Δ	24.18	35.04			23.64	427.6	20.	24.27	35.03	23.60	430.4	0.086
50.	23.09	35.20	5.60	0.14	24.08	386.3	30.	24.18	35.04	23.64	427.6	0.129
75.	21.86	35.24	5.50	0.19	24.46	351.0	50.	23.09	35.20	24.08	386.3	0.211
102.	21.13	35.30	5.43	0.48	24.71	328.4	75.	21.86	35.24	24.46	351.0	0.304
125.	20.77	35.28	5.39	0.13	24.75	321.4	100.	21.17	35.30	24.69	329.6	0.390
151.	19.62	35.13	5.35	0.33	24.98	304.0	150.	19.67	35.14	24.97	304.7	0.550
175.	18.46	34.94	5.03	0.23	25.13	290.2	200.	17.31	34.76	25.27	277.0	0.696
190.	17.85	34.84	4.99	0.31	25.21	283.4	250.	14.20	34.37	25.68	239.2	0.827
223.	15.90	34.57	4.87	0.50	25.46	259.8	300.	11.77	34.14	25.99	210.1	0.940
250.	14.20	34.37	4.89	0.72	25.68	239.2	400.	8.47	34.04	26.47	164.1	1.129
275.	12.70	34.22	4.92	0.64	25.87	221.1	500.	6.45	34.06	26.77	135.2	1.280
301.	11.74	34.14	4.86	0.87	25.99	209.7	600.	5.29	34.13	26.97	116.1	1.407
400.	8.47	34.04	3.98	1.72	26.47	164.1	700.	4.68	34.24	27.13	101.3	1.516
501.	6.44	34.06	2.19	1.98	26.78	135.0	800.	4.36	34.36	27.26	89.8	1.613
601.	5.28	34.13	1.17	2.21	26.98	116.0	1000.	3.88	34.48	27.41	77.0	1.782
801.	4.36	34.36	0.73	2.68	27.26	89.7	1200.	3.44	34.52	27.48	70.3	1.931
1001.	3.88	34.48	1.09	2.68	27.41	76.9						
1201.	3.44	34.52	1.28	2.18	27.48	70.3						
1499.	2.79	34.57	1.73	2.42	27.58	60.9						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CRDMWELL 6, STATION 36, 25- ON LAT, 148- OW LCNG, JULY 29, 1964, 0600 G.C.T. CRY BULB 23.2 WET BULB 19.5 WIND SPEED 24, DIR. 08 BAR. 21 WEATHER 03 VIS. 7 CLOUD TYPE 8, COVER 8												
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.10	35.13	5.20	0.32	23.73	417.6	0.	24.10	35.13	23.73	417.6	0.000
9.	24.13	35.13	5.25	0.20	23.72	418.8	10.	24.13	35.13	23.72	418.9	0.042
30. Δ	24.13	35.13			23.72	419.7	20.	24.14	35.13	23.72	419.5	0.084
50.	24.08	35.13			23.74	419.0	30.	24.13	35.13	23.72	419.7	0.127
76.	21.64	35.25	5.45	0.12	24.53	344.5	50.	24.08	35.13	23.74	419.0	0.211
99.	21.14	35.32	5.52	0.18	24.72	327.2	75.	21.74	35.24	24.50	347.5	0.308
123.	20.75	35.30	5.52	0.62	24.81	319.4	100.	21.13	35.32	24.72	326.8	0.393
149.	19.82	35.16	5.28	0.26	24.95	306.7	150.	19.77	35.15	24.96	306.1	0.552
173.	18.65	34.99	5.18	0.22	25.12	291.1	200.	17.24	34.76	25.30	275.0	0.699
188.	17.88	34.86	5.08	0.56	25.21	282.6	250.	13.98	34.35	25.71	235.8	0.827
221.	16.01	34.60	5.07	0.45	25.46	260.0	300.	11.25	34.12	26.06	202.5	0.938
247.	14.22	34.38	5.11	0.70	25.68	238.8	400.	8.97	34.06	26.41	170.7	1.126
272.	12.36	34.20	4.99	0.91	25.92	216.1	500.	6.80	34.02	26.70	142.8	1.284
298.	11.31	34.12	4.96	1.25	26.05	203.3	600.	5.44	34.09	26.92	121.1	1.418
395.	9.09	34.06	4.73	1.42	26.39	172.2	700.	4.69	34.21	27.10	104.1	1.531
495.	6.89	34.02	2.88	2.09	26.68	144.0	800.	4.30	34.33	27.24	91.3	1.630
593.	5.51	34.08	1.50	2.43	26.91	122.5	1000.	3.87	34.47	27.40	77.9	1.801
790.	4.33	34.32	0.66	2.72	27.23	92.2	1200.	3.41	34.54	27.50	68.6	1.950
987.	3.90	34.46	1.03	2.80	27.39	78.5						
1185.	3.42	34.52	1.35	2.64	27.48	70.0						
1484.	2.80	34.58	1.80	2.61	27.59	60.2						

CRCPMELL 6, STATION 37, 26-30N LAT, 147-58W LCNG, JULY 29, 1964, 1600 G.C.T. CRY BULB 22.1 WET BULB 19.8 WIND SPEED 12, DIR. 08 BAR. 13 WEATHER 03 VIS. 7 CLOUD TYPE 6, COVER 5												
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	23.22	35.41	5.31	0.08	24.20	372.9	0.	23.22	35.41	24.20	372.8	0.000
10.	23.26	35.41	5.03	0.09	24.19	374.3	10.	23.26	35.41	24.19	374.3	0.038
51.	22.38	35.28	5.42	0.17	24.34	361.2	20.	23.27	35.39	24.17	376.4	0.075
76.	20.30	35.18	5.72	0.32	24.84	314.8	30.	23.13	35.36	24.19	375.0	0.113
100.	19.69	35.16	5.70	0.11	24.98	301.7	50.	22.43	35.28	24.33	362.2	0.188
124.	19.24	35.14	5.63	0.46	25.09	292.9	75.	20.38	35.18	24.82	316.6	0.273
151.	18.92	35.10	5.57	0.98	25.14	288.9	100.	19.69	35.16	24.98	301.7	0.351
174.	18.24	34.96	5.49	0.15	25.20	283.4	150.	18.93	35.10	25.14	289.0	0.500
189.	17.09	34.75	5.42	0.24	25.32	272.3	200.	16.43	34.65	25.40	265.0	0.639
223.	15.24	34.51	5.06	0.51	25.56	249.9	250.	13.78	34.35	25.75	231.9	0.765
248.	13.87	34.36	5.02	0.64	25.74	233.2	300.	11.96	34.22	26.01	208.1	0.876
274.	12.79	34.28	5.03	0.76	25.90	218.5	400.	9.75	34.12	26.32	179.0	1.071
299.	11.99	34.22	5.15	0.88	26.01	208.4	500.	7.33	34.02	26.62	150.3	1.237
397.	9.83	34.12	4.94	1.30	26.31	179.9	600.	5.73	34.07	26.88	126.0	1.377
498.	7.37	34.02	3.41	1.91	26.62	150.9	700.	4.89	34.17	27.05	109.0	1.495
598.	5.75	34.07	1.82	2.29	26.87	126.4	800.	4.45	34.28	27.19	96.5	1.599
796.	4.47	34.28	0.53	2.77	27.19	96.9	1000.	3.89	34.44	27.38	79.8	1.778
995.	3.90	34.44	0.80	3.06	27.37	80.1	1200.	3.43	34.53	27.49	69.3	1.929
1194.	3.48	34.52	1.21	2.80	27.48	70.7						
1453.	2.88	34.58	1.52	2.58	27.58	61.0						

CRDMWELL 6, STATION 38, 25- ON LAT, 151- OW LCNG, JULY 30, 1964, 0800 G.C.T.													
CRY BULB 23.3		WET BULB 20.8		WIND SPEED 17, DIR. 06		BAR. 22		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.49	35.08			23.58	432.3	0.	24.49	35.08	23.58	432.3	0.000	
10.	24.49	35.08			23.58	432.7	10.	24.49	35.08	23.58	432.7	0.044	
30. ^Δ	24.20	35.10			23.68	423.8	20.	24.47	35.08	23.58	432.7	0.087	
51.	22.14	35.28			24.41	354.7	30.	24.20	35.10	23.68	423.8	0.130	
76.	21.21	35.31			24.69	328.9	50.	22.25	35.27	24.37	358.2	0.209	
101.	20.46	35.18			24.80	319.8	75.	21.23	35.31	24.69	329.2	0.296	
125.	20.24	35.27			24.92	308.5	100.	20.48	35.18	24.79	320.0	0.377	
151.	19.60	35.18			25.02	299.9	150.	19.64	35.19	25.02	300.2	0.534	
177.	18.23	34.94			25.19	284.7	200.	16.75	34.69	25.36	268.9	0.677	
191.	17.43	34.80			25.28	276.6	250.	13.61	34.31	25.75	231.9	0.803	
224.	14.93	34.44			25.57	248.5	300.	11.62	34.18	26.04	204.6	0.913	
252.	13.52	34.30			25.76	230.7	400.	8.45	34.04	26.47	163.7	1.099	
276.	12.27	34.20			25.94	214.5	500.	6.61	34.02	26.72	140.3	1.293	
301.	11.60	34.18			26.05	204.2	600.	5.30	34.12	26.96	117.0	1.383	
401.	8.42	34.04			26.48	163.4	700.	4.68	34.24	27.13	101.2	1.493	
501.	6.60	34.02			26.72	140.1	800.	4.41	34.36	27.26	90.2	1.590	
600.	5.30	34.12			26.96	117.0	1000.	3.96	34.49	27.41	77.1	1.759	
799.	4.41	34.36			27.26	90.3	1200.	3.48	34.54	27.49	69.6	1.908	
1000.	3.96	34.49			27.41	77.1							
1199.	3.48	34.52			27.48	70.8							
1428.	2.93	34.55			27.55	63.6							

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 6, STATION 39, 25- ON LAT, 154- 1W LCNG, JULY 31, 1964, 0600 G.C.T.													
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 20, DIR. C7		8AR. 2C		WEATHER 03		VIS. 6		CLCUC TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.18	34.92	5.16	0.24	23.25	463.8	0.	25.18	34.92	23.25	463.8	0.000	
10.	25.20	34.92	5.21		23.24	464.8	10.	25.20	34.92	23.24	464.8	0.047	
52.	24.35	35.12	5.37	0.46	23.65	427.5	20.	25.18	34.96	23.28	461.7	0.093	
77.	22.60	35.14	5.37	0.15	24.17	378.2	30.	25.05	35.01	23.35	454.9	0.140	
102.	21.86	35.23	5.37		24.45	352.8	50.	24.44	35.11	23.61	430.7	0.229	
126.	20.94	35.20	5.06	0.18	24.68	331.6	75.	22.74	35.14	24.13	382.1	0.331	
152.	19.48	35.03	4.80	0.70	24.94	307.8	100.	21.90	35.22	24.43	354.3	0.424	
177.	18.15	34.88	4.68	0.49	25.16	287.2	150.	19.60	35.05	24.92	309.5	0.591	
192.	17.34	34.78	4.80	0.60	25.28	276.0	200.	16.96	34.73	25.34	270.9	0.737	
227.	15.68	34.58	4.84	0.49	25.52	254.4	250.	14.42	34.44	25.68	238.7	0.866	
253.	14.25	34.42	4.84	0.81	25.71	236.7	300.	12.08	34.21	25.98	210.8	0.979	
279.	12.97	34.29	4.84	0.89	25.87	221.3	400.	9.26	34.08	26.38	173.6	1.173	
303.	11.96	34.20	4.89	0.85	26.00	209.4	500.	7.02	34.01	26.66	146.6	1.335	
405.	9.16	34.08	4.44	1.25	26.39	172.1	600.	5.62	34.07	26.89	124.6	1.472	
506.	6.91	34.01	3.40		26.67	145.2	700.	4.75	34.18	27.08	106.7	1.589	
607.	5.55	34.08	1.61	2.22	26.90	123.2	800.	4.22	34.30	27.23	92.6	1.689	
809.	4.19	34.31	0.66	2.52	27.24	91.5	1000.	3.78	34.47	27.41	76.1	1.860	
1009.	3.77	34.48	1.16	2.85	27.42	75.7	1200.	3.32	34.53	27.50	68.2	2.006	
1211.	3.29	34.53	1.49	3.22	27.50	67.9							
1466.	2.77	34.57	1.75	2.28	27.58	60.5							

CROMWELL 6, STATION 40, 25- ON LAT, 157- 0W LCNG, JULY 31, 1964, 2100 G.C.T.													
DRY BULB 25.5		WET BULB 22.1		WIND SPEED 14, DIR. C7		8AR. 2C		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.79	35.10			23.50	439.5	0.	24.79	35.10	23.50	439.5	0.000	
10.	24.72	35.10			23.52	437.9	10.	24.72	35.10	23.52	437.9	0.044	
30.Δ	24.60	35.10			23.56	435.2	20.	24.66	35.10	23.54	436.6	0.088	
50.	24.46	35.11			23.61	431.3	30.	24.60	35.10	23.56	435.2	0.132	
76.	23.06	35.12			24.03	392.3	50.	24.46	35.11	23.61	431.3	0.219	
100.	22.19	35.19			24.33	364.4	75.	23.12	35.12	24.01	394.0	0.323	
125.	21.10	35.18			24.62	337.2	100.	22.19	35.19	24.33	364.4	0.419	
151.	20.45	35.16			24.78	322.8	150.	20.48	35.16	24.78	323.3	0.592	
175.	19.25	35.02			24.99	303.6	200.	17.89	34.82	25.18	286.3	0.746	
190.	18.47	34.90			25.10	293.8	250.	14.84	34.49	25.63	244.0	0.880	
225.	16.37	34.63			25.40	265.9	300.	12.21	34.25	25.98	210.5	0.994	
251.	14.78	34.48			25.64	243.2	400.	9.57	34.13	26.36	175.0	1.189	
277.	13.51	34.34			25.80	228.2	500.	7.26	34.07	26.67	145.6	1.350	
302.	12.10	34.24			26.00	209.0	600.	5.89	34.13	26.90	124.1	1.487	
401.	9.56	34.13			26.37	174.8	700.	4.96	34.22	27.08	106.6	1.603	
503.	7.20	34.07			26.68	144.8	800.	4.34	34.32	27.23	92.7	1.704	
605.	5.84	34.13			26.91	123.2	1000.	3.72	34.45	27.40	77.4	1.876	
804.	4.32	34.32			27.23	92.3	1200.	3.35	34.52	27.49	69.3	2.025	
1005.	3.71	34.45			27.40	77.2	1500.	2.75	34.56	27.58	61.2	2.223	
1205.	3.34	34.52			27.49	69.2							
1507.	2.74	34.56			27.58	61.1							

CROMWELL 6, STATION 41, 23-30N LAT, 157- 1W LCNG, AUG. 1, 1964, 0600 G.C.T.													
DRY BULB 25.0		WET BULB 21.2		WIND SPEED 18, DIR. 07		8AR. 1E		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
0.	25.62	34.90			23.10	478.1	0.	25.62	34.90	23.10	478.1	0.000	
10.	25.63	34.90			23.09	478.8	10.	25.63	34.90	23.09	478.8	0.048	
30.Δ	25.60	34.90			23.10	478.8	20.	25.63	34.90	23.09	479.3	0.096	
50.Δ	25.38	34.91			23.18	472.4	30.	25.60	34.90	23.10	478.8	0.145	
75.	24.43	35.00			23.53	439.4	50.	25.38	34.91	23.18	472.4	0.241	
98.	23.44	35.14			23.93	402.2	75.	24.43	35.00	23.53	439.4	0.355	
123.	22.63	35.20			24.21	376.5	100.	23.38	35.15	23.96	399.9	0.461	
137.	22.02	35.18			24.37	362.0	150.	21.31	35.21	24.59	341.3	0.648	
148.	21.48	35.24			24.56	343.7	200.	18.00	34.84	25.17	287.0	0.806	
161.	20.34	35.03			24.71	329.7	250.	14.93	34.50	25.62	245.1	0.940	
172.	19.76	35.03			24.87	315.4	300.	12.28	34.22	25.94	214.3	1.056	
187.	18.85	34.94			25.03	300.0	400.	8.94	34.02	26.38	172.9	1.251	
287.	12.84	34.26			25.87	221.2	500.	6.92	34.02	26.68	144.7	1.412	
445.	7.97	34.02			26.53	158.8	600.	5.61	34.08	26.90	123.8	1.547	
590.	5.71	34.07			26.88	125.8	700.	4.81	34.19	27.08	106.6	1.664	
787.	4.40	34.30			27.21	94.5	800.	4.35	34.31	27.23	93.1	1.765	
985.	3.86	34.46			27.39	78.0	1000.	3.82	34.47	27.40	77.2	1.937	
1182.	3.36	34.51			27.48	70.0	1200.	3.33	34.53	27.50	67.9	2.084	
1480.	2.79	34.56			27.57	61.5							

TEMPERATURE ERROR TERM AT 400. METERS IS 0.11

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 6, STATION 42, 22- ON LAT, 156-56W LONG, AUG. 1, 1964, 1500 G.C.T.												
ORY BULB 23.3		MET BULB 21.9		WIND SPEED 20, DIR. 09			BAR. 16		WEATHER 62		VIS. 5 CLOUD TYPE 0, COVER 7	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.25	35.10			23.36	452.9	0.	25.25	35.10	23.36	452.9	0.000
10.	25.26	35.10			23.36	453.6	10.	25.26	35.10	23.36	453.6	0.046
30. ^Δ	25.18	35.10			23.38	452.0	20.	25.24	35.10	23.36	453.5	0.091
50. ^Δ	24.90	35.11			23.48	444.0	30.	25.18	35.10	23.38	452.0	0.137
75.	23.19	35.17			24.03	392.2	50.	24.90	35.11	23.48	444.0	0.227
100.	21.83	35.16			24.41	356.9	75.	23.19	35.17	24.03	392.2	0.333
124.	20.83	35.13			24.66	333.7	100.	21.83	35.16	24.41	356.9	0.427
146.	19.44	35.00			24.93	308.8	150.	19.37	35.00	24.94	307.4	0.594
172.	18.46	34.92			25.12	291.5	200.	16.29	34.67	25.45	260.5	0.737
186.	17.44	34.79			25.27	277.4	250.	13.78	34.45	25.83	224.5	0.860
221.	14.78*	34.53			25.68	238.7	300.	12.21	34.30	26.03	206.5	0.968
246.	13.85	34.46			25.82	225.4	400.	9.01	34.09	26.42	169.1	1.158
271.	13.39	34.42			25.88	219.6	500.	6.51	34.03	26.74	138.3	1.313
295.	12.40	34.32			26.00	208.6	600.	5.50	34.15	26.97	117.1	1.442
391.	9.29	34.10			26.39	172.4	700.	4.96	34.28	27.14	101.6	1.552
488.	6.70	34.02			26.71	141.3	800.	4.63	34.39	27.26	90.6	1.650
585.	5.60	34.13			26.94	119.8	1000.	3.96	34.48	27.40	77.6	1.820
780.	4.71	34.38			27.24	92.3	1200.	3.41	34.55	27.51	68.0	1.968
974.	4.04	34.47			27.38	79.4						
1166.	3.48	34.54			27.49	69.1						
1448.	2.92	34.58			27.58	61.4						

ΔFROM ST DATA
*INTERPOLATED DATA

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